

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	14.319	4,4'-DDT	831.9078	19.346	489736.6	13.685	BB	0.037	223165.50	14.512
66	14.510		0.0000	0.000	5356.2	0.150	BB	0.050	1770.94	0.115
67	14.619		0.0000	0.000	1991.6	0.056	BB	0.046	720.51	0.047
68	14.861		0.0000	0.000	4174.5	0.117	BB	0.046	1527.93	0.099
69	14.957	Endrin aldehyde	17.9719	0.418	6756.4	0.189	BB	0.042	2652.39	0.172
70	15.165		0.0000	0.000	4814.0	0.135	BB	0.034	2379.97	0.155
71	15.292	Methoxychlor	4.3745	0.102	1371.4	0.038	BB	0.039	586.03	0.038
72	15.468		0.0000	0.000	864.9	0.024	BB	0.029	491.92	0.032
73	15.605		0.0000	0.000	540.7	0.015	BB	0.022	416.60	0.027
74	15.756		0.0000	0.000	13822.5	0.386	BB	0.081	2849.42	0.185
75	16.067		0.0000	0.000	2027.5	0.057	BB	0.037	919.00	0.060
76	16.150		0.0000	0.000	2757.0	0.077	BB	0.038	1194.89	0.078
77	16.267		0.0000	0.000	1624.4	0.045	BB	0.046	583.26	0.038
78	16.303		0.0000	0.000	2125.1	0.059	BB	0.030	1170.88	0.076
79	16.368		0.0000	0.000	1626.4	0.045	BB	0.032	851.19	0.055
80	16.454	Endrin ketone	18.5529	0.431	11162.4	0.312	BB	0.042	4471.16	0.291
81	16.597		0.0000	0.000	1176.2	0.033	BB	0.035	555.85	0.036
82	16.648		0.0000	0.000	1542.1	0.043	BB	0.029	877.70	0.057
83	16.749		0.0000	0.000	2061.4	0.058	BB	0.037	938.97	0.061
84	16.926		0.0000	0.000	1518.3	0.042	BB	0.037	689.88	0.045
85	17.005		0.0000	0.000	1318.0	0.037	BB	0.031	707.26	0.046
86	17.187		0.0000	0.000	3470.1	0.097	BB	0.061	955.79	0.062
87	17.284		0.0000	0.000	1924.7	0.054	BB	0.047	687.85	0.045
88	18.881	DCB	345.8882	8.044	191978.3	5.364	BB	0.052	61287.07	3.985
89	20.179		0.0000	0.000	3214.7	0.090	BB	0.079	675.75	0.044
90	24.799		0.0000	0.000	1261.9	0.035	BB	0.052	406.95	0.026

Total Area = 3578691.0, Total Amount = 4300.157, Total Height = 1537812.0, Sample Units = PPB

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
65	13.723		0.0000	0.000	2373.5	0.073	BB	0.067	592.30	0.041
66	13.891	Endrin	872.7303	20.586	525807.9	16.196	BB	0.036	244286.00	16.723
67	13.997		0.0000	0.000	1439.8	0.044	BB	0.030	810.97	0.056
68	14.156	4,4'-DDD	21.7521	0.513	11982.5	0.369	BB	0.036	5590.28	0.383
69	14.323	Endosulfan II	1.6570	0.039	1005.3	0.031	BB	0.037	454.44	0.031
70	14.423		0.0000	0.000	862.3	0.027	BB	0.023	634.01	0.043
71	14.482		0.0000	0.000	5514.8	0.170	BB	0.050	1832.03	0.125
72	14.687		0.0000	0.000	552.9	0.017	BB	0.030	302.93	0.021
73	14.811	4,4'-DDT	827.4592	19.518	476970.1	14.692	BB	0.036	223643.60	15.310
74	15.052	Endrin aldehyde	14.5408	0.343	5244.4	0.162	BB	0.039	2267.93	0.155
75	15.173		0.0000	0.000	1337.6	0.041	BB	0.029	763.34	0.052
76	15.318		0.0000	0.000	4001.4	0.123	BB	0.051	1297.80	0.089
77	15.506		0.0000	0.000	8141.1	0.251	BB	0.038	3599.78	0.246
78	15.893		0.0000	0.000	1893.1	0.058	BB	0.040	790.57	0.054
79	15.970		0.0000	0.000	988.6	0.030	BB	0.031	530.60	0.036
80	16.021		0.0000	0.000	862.5	0.027	BB	0.026	557.39	0.038
81	16.164		0.0000	0.000	16037.4	0.494	BB	0.069	3851.78	0.264
82	16.475		0.0000	0.000	6121.3	0.189	BB	0.057	1803.13	0.123
83	16.608		0.0000	0.000	2807.9	0.086	BB	0.038	1216.89	0.083
84	16.751	Endrin ketone	19.9796	0.471	12629.0	0.389	BB	0.044	4773.38	0.327
85	16.813		0.0000	0.000	1176.5	0.036	BB	0.031	640.89	0.044
86	16.981		0.0000	0.000	2074.7	0.064	BB	0.032	1066.64	0.073
87	17.044		0.0000	0.000	2171.4	0.067	BB	0.035	1027.24	0.070
88	17.300		0.0000	0.000	1081.3	0.033	BB	0.033	547.77	0.037
89	17.383		0.0000	0.000	1499.0	0.046	BB	0.040	627.87	0.043
90	17.691		0.0000	0.000	6080.9	0.187	BB	0.079	1281.63	0.088
91	18.350		0.0000	0.000	1127.6	0.035	BB	0.048	392.42	0.027
92	18.904		0.0000	0.000	968.2	0.030	BB	0.041	389.04	0.027
93	19.183		0.0000	0.000	2488.6	0.077	BB	0.055	750.03	0.051
94	19.503		0.0000	0.000	472.1	0.015	BB	0.027	295.36	0.020
95	20.152	DCB	369.2568	8.710	214037.1	6.593	BB	0.061	58012.09	3.971

Total Area = 3246537.0, Total Amount = 4239.497, Total Height = 1460771.0, Sample Units = PPB

4692565MSDFG

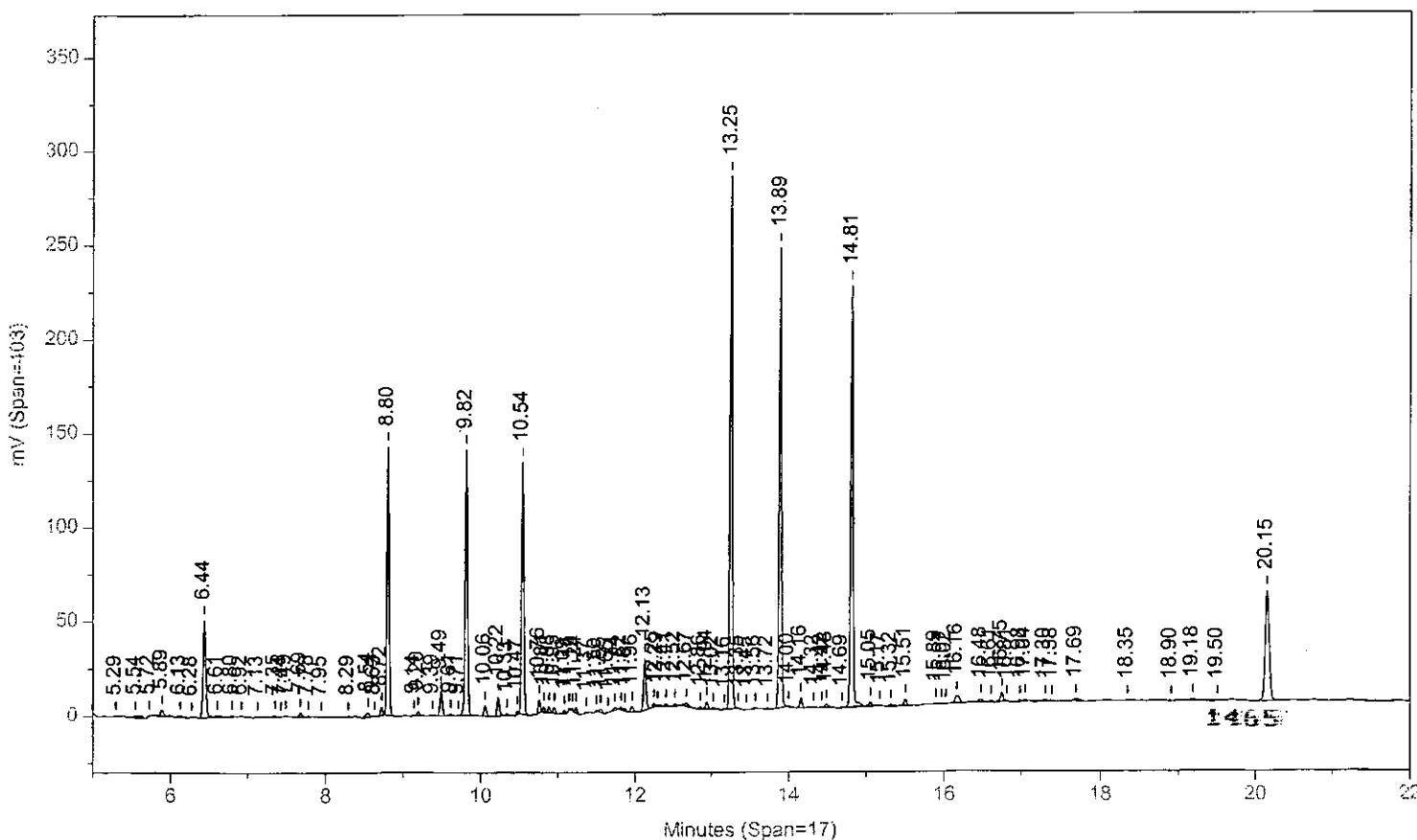
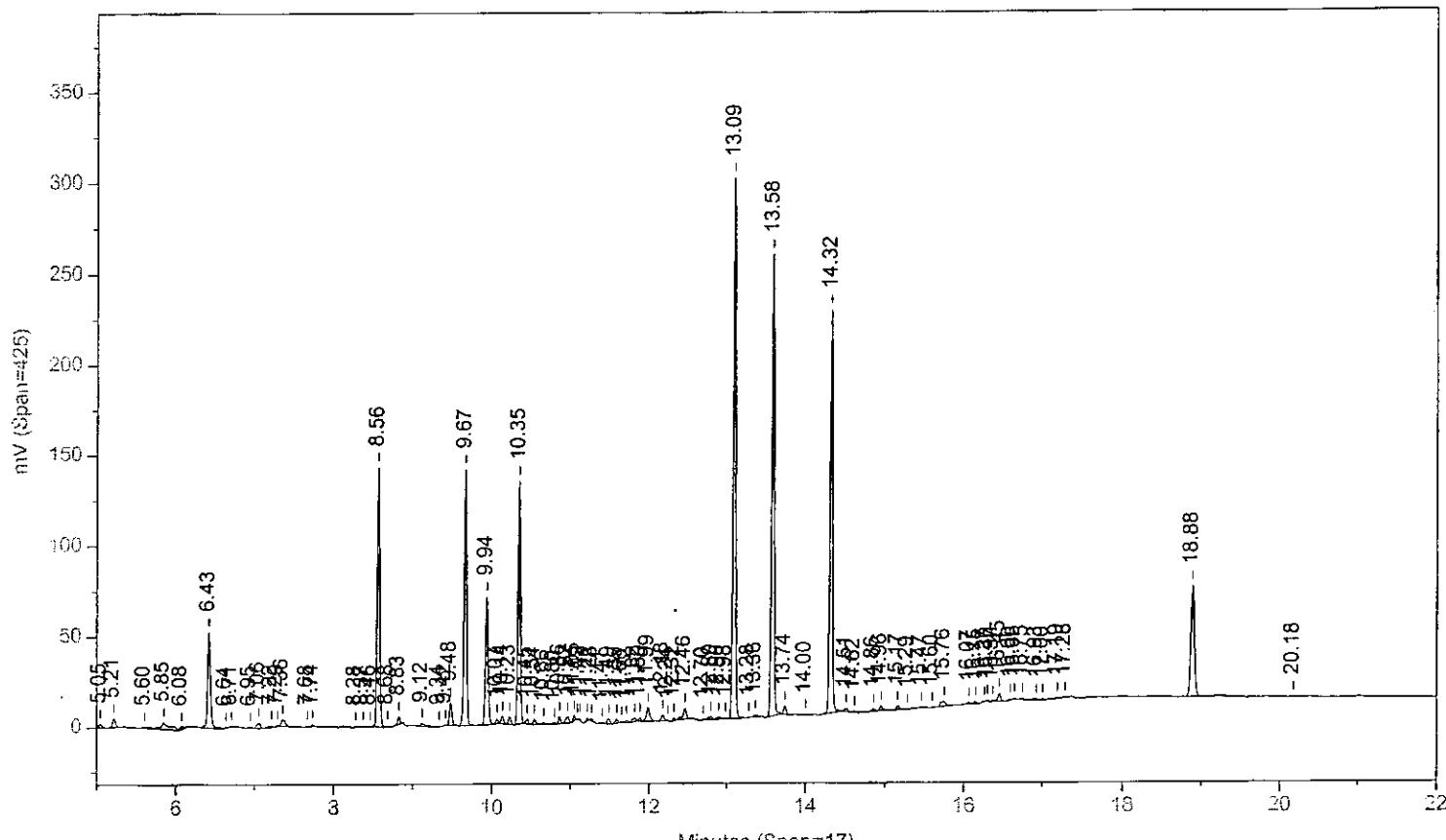
AB6005-MSD MSD 060240016A

04562

Page1

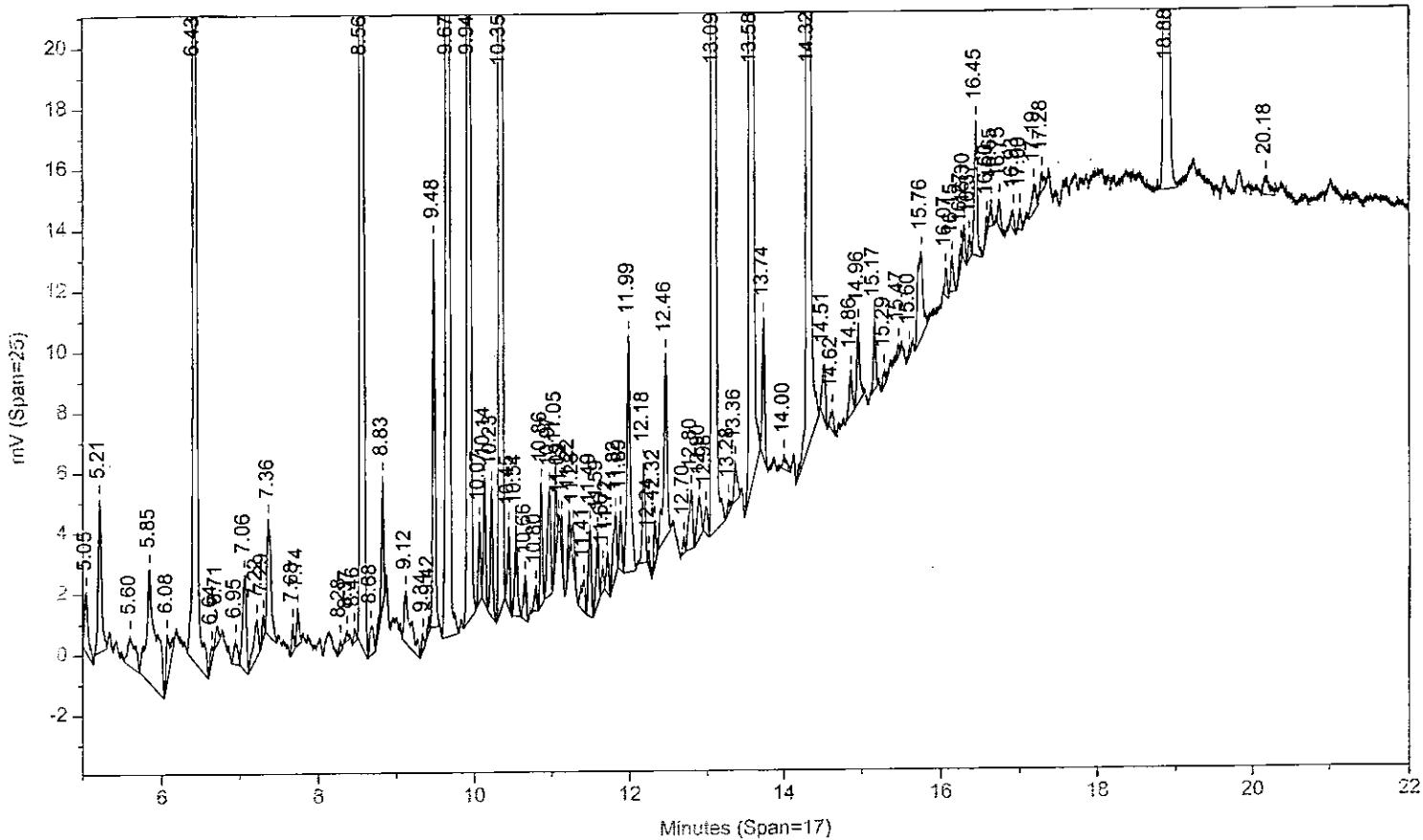
LANCASTER LABORATORIES

File: C:\CPWIN\DATA1\4D1353.54R



LANCASTER LABORATORIES

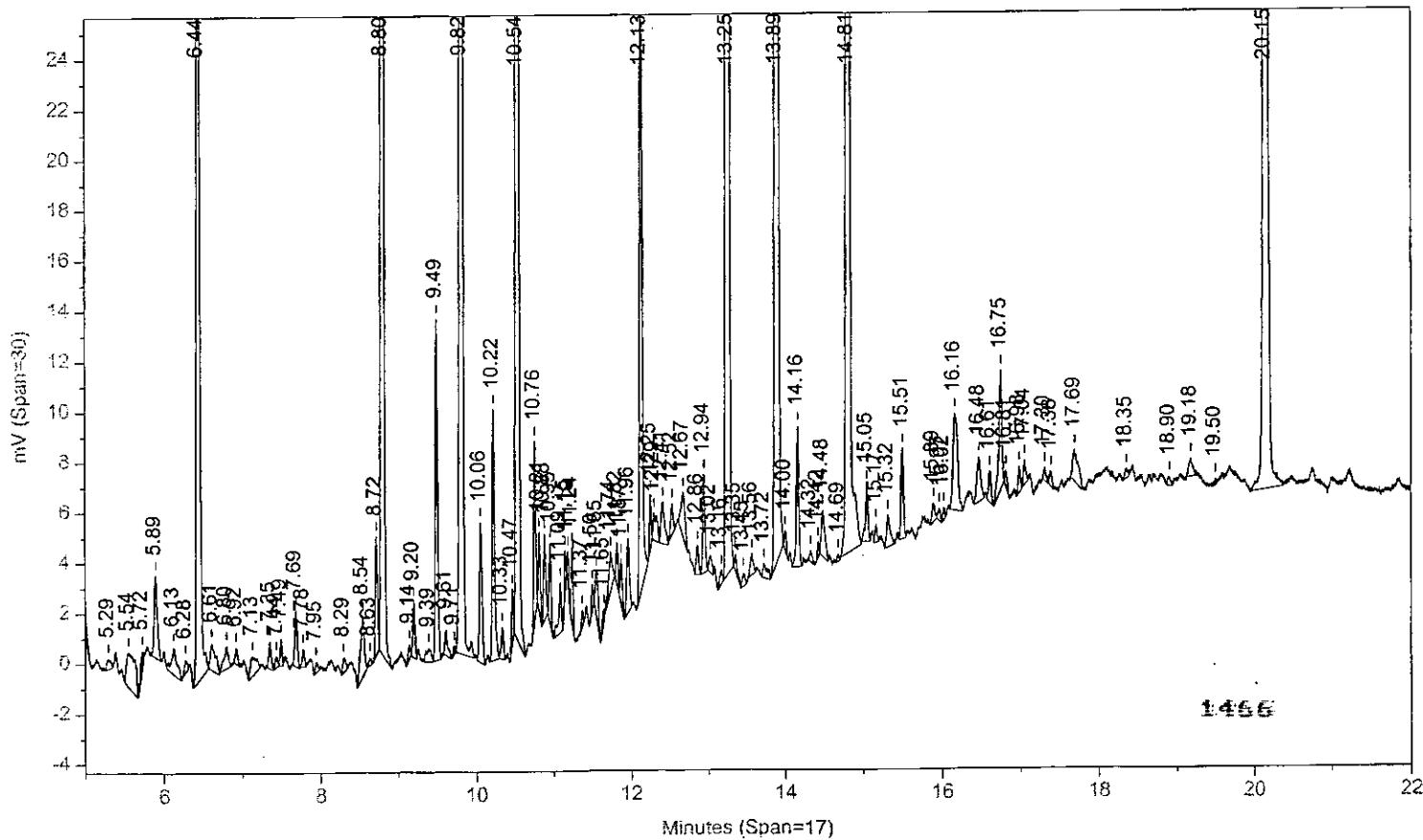
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Instrument ID: CP01--V5807A Injected On: 1/31/2006 5:31:58 PM

Column ID: RTX-CLP,30mx0.32mmx0.5um

File: C:\CPWIN\DATA1\4D1353B.54R



Instrument ID: CP01--V5807B Injected On: 1/31/2006 5:31:58 PM

Column ID: RTX-CLPH,30mx0.32mmx0.25um

1466

Oven Parameters: 140C to 280C@ 9C/min, hold 9min

Volume Inj: 1

Detector A Parameters:

Threshold: 3

Width: 0.02

Area Reject: 0

Calibration Type: External

Quantitation: Height

Detector B Parameters:

Threshold: 3

Width: 0.02

Area Reject: 0

Calibration Type: External

Quantitation: Height

Sample Weight: 30

Dilution Factor: 10

Analyst: 120

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
6.43	52946	8.681	TCX	6.445	51515	8.819	TCX
	0	.	alpha-BHC	7.946	487	.036	alpha-BHC
8.561	143118	11.415	gamma-BHC	8.802	142757	11.288	gamma-BHC
8.827	4352	.912	beta-BHC		0	.	beta-BHC
9.667	141239	10.747	Heptachlor	9.815	141040	10.897	Heptachlor
	0	.	delta-BHC	9.714	406	.034	delta-BHC
10.348	134110	11.597	Aldrin	10.539	133687	11.511	Aldrin
11.716	1348	.127	Hept. epoxide	11.819	1674	.156	Hept. epoxide
11.99	7870	.732	g. Chlordane	12.246	2194	.2	g. Chlordane
12.32	1543	.159	a. Chlordane	12.525	1303	.132	a. Chlordane
12.463	6105	.617	4,4'-DDE	12.939	3940	.398	4,4'-DDE
	0	.	Endosulfan I	12.669	1777	.174	Endosulfan I
13.085	298517	27.672	Dieldrin	13.248	282892	26.76	Dieldrin
13.58	255141	29.449	Endrin	13.891	244286	29.091	Endrin
13.735	4631	.608	4,4'-DDD	14.156	5590	.725	4,4'-DDD
14.319	223166	27.73	4,4'-DDT	14.811	223644	27.582	4,4'-DDT
	0	.	Endosulfan II	14.323	454	.055	Endosulfan II
14.957	2652	.599	Endrin aldehyde	15.052	2268	.485	Endrin aldehyde
15.292	586	.146	Methoxychlor		0	.	Methoxychlor
16.454	4471	.618	Endrin ketone	16.751	4773	.666	Endrin ketone
18.881	61287	11.53	DCB	20.152	58012	12.309	DCB

Files:

Area File: C:\CPWIN\DATA1\4D1353.54A

Area File: C:\CPWIN\DATA1\4D1353B.54A

Method A: C:\CPWIN\DATA1\CLP2D.MET

Method B: C:\CPWIN\DATA1\CLP2DB.MET

Calibration File A: C:\CPWIN\DATA1\2D1353.CAL

Calibration File B: C:\CPWIN\DATA1\2D1353B.CAL

Format A: C:\CPWIN\DATA1\PESTD.FMTA

Format B: C:\CPWIN\DATA1\PESTD.FMTB

Area File Created On: 1/31/2006 5:57:04 PM

File Reported On: 1/31/2006 at 5:57:17 PM

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog

Prep Analysis # 04185 CLP Soil Extraction

Reviewed: JKL

Prep Group # 106 Pesticides CLP Soils

Start Date: 11/25/06

Dept: 24

Start Time: 07:00

BATCH NO.

060240016A

3.2

Tech 1: JSC 1313

Tech 2:

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLKE8	30.0	SS0601224A	7.0	-	-	10.0	-	-	-	
LCSA	LCSF4	30.0	SS0601224A		MS0527624A	1.6				-	
4692565MS	6005-MS	30.0	SS0601224A		MS0527624A					20A	brown, clumpy mud
4692565MSD	6005-MSD	30.0	SS0601224A		MS0527624A					↓	↓

11/25/06
JSC 1313

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV	pH	pH	BC	Comments	Analyses	Due Date	P	C
1 4692565 bkg	6005-	30.0	SS0601224A	7.0	10.0	-	-	20A	brown, clumpy mud	4562	2/3/06	N	Y
2 4692566	6020-	30.0	SS0601224A							4562	2/3/06	N	Y
3 4692567	6014-	30.0	SS0601224A							4562	2/3/06	N	Y
4 4692568	6007-	30.0	SS0601224A							4562	2/3/06	N	Y
5 4692569	6024-	30.0	SS0601224A							4562	2/3/06	N	Y
6 4692570	6028-	30.0	SS0601224A							4562	2/3/06	N	Y
7 4692571	6008-	30.0	SS0601224A							4562	2/3/06	N	Y
8 4692572	6010-	30.0	SS0601224A							4562	2/3/06	N	Y
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

JSC 1313

Additional Comment: Filtered for GPC

DF = Dilution Factor FV = Final Volume page 1 of 1

Spike Solutions:SS0601224A CLP SURROGATE STANDARD
MS0527624A CLP SPIKE

Solvent Used	Lot No.	Solvent Used	Lot No.
I:1 Acetone / H ₂ O	185C11704A	-	-
Na ₂ SO ₄	06024A	-	-
H ₂ O	B52.E31	-	-
Rack ID:	-	Work Station:	50 Hard 1
Internal Standard	-	Balance #	53.2
S-bath ID	- °C	S-bath ID	- °C N-Evap - °C

100/300 1-24-06

1469

Documented temps are NIST corrected 060240016A

Turbo-Lip A+C



Prep-Process Worksheet

GPC

Prep Analysis # 04185 CLP Soil Extraction
Prep Group # 106 Pesticides CLP Soils

BATCH NO.

060240016A

Verified: TM

Start Date: 1-26-04
 Start Time: 11:00
 Tech 1: LCHM12
 Tech 2: MH1430

Sample #	Vol.(ml) on	Final Conc. Volume (ml)	Column ID	D.F.		Comments	Analyses
				Aliq.	F.V.		
1 BLANKA	5.0	5.0	①	2			
2 LCSA			①	2			
3 4692565MS			①	2			4562
4 4692565MSD			①	2			4562
5 4692565			①	2			4562
6 4692566			①	2			4562
7 4692567			①	2			4562
8 4692568			①	2			4562
9 4692569			①	2			4562
10 4692570			①	2			4562
11 4692571			①	2			4562
12 4692572			①	2			4562
13			1	2			
14			1	2			
15			1	2			
16			1	2			
17			1	2			
18			1	2			
19			1	2			
20			1	2			
21			1	2			
22			1	2			
23			1	2			
24			1	2			
			1	2			
			1	2			

Additional Comment:

DF = Dilution Factor FV = Final Volume page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
MeSCl2	B52E51	TurboVap A	C
Hexane	B51E75		
S-Evap/bath	°C	S-Evap/bath	°C
N-Evap	°C		°C

The documented temperatures are NIST corrected.

Instrument #:	<u>ABCD2</u>
Column ID #1:	<u>32</u>
Column ID #2:	<u>1478</u>

Prep-Process Worksheet

Florisil

Prep Analysis # 04185 CLP Soil Extraction
 Prep Group # 106 Pesticides CLP Soils

BATCH NO. 060240016A

Verified: B
 Start Date: 1-7-06
 Start Time: 13:00
 Tech 1: MH424
 Tech 2:

Sample #	Aliquot (ml)	Final Volume (ml)	D.F.		Comments	Analyses
			Aliq.	F.V.		
1 BLANKA	2	2				
2 LCSA						
3 4692565MS						4562
4 4692565MSD						4562
5 4692565						4562
6 4692566						4562
7 4692567						4562
8 4692568						4562
9 4692569						4562
10 4692570						4562
11 4692571						4562
12 4692572						4562
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
						<u>MH424 1-26-06</u>

Additional Comment:

DF = Dilution Factor FV = Final Volume page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
10% Acetone in hexane		1428017906/4	
hexane	BS1E75		
Manifold C-4			
Florisil	503060-133		
S-Evap/bath	°C	S-Evap/bath	°C
			N-Evap 5 30 °C

1421

The documented temperatures are NIST corrected.

Organic Extraction Batchlog

Reviewed: *[Signature]*

Prep Analysis # 03342 CLP Water Extraction

Start Date: 11/26/06

Prep Group # 10 Pesticides CLP Waters

Dept: 24

Start Time: 0730

Tech 1: *[Signature]*

Tech 2: _____

BATCH NO.

060250019A

3.2

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	BC	Comments
BLANKA	PBLKFG	1.00	SS0601224A	1.0	-	-	16.0	6	7	
LCSA	LCSG8	1.00	SS0601224A	-	MS0527624A	1.0	-	6	7	
LCSDA	LCSD25	1.000	SS0601224A	-	MS0527624A	-	-	6	7	

11/26/06

[Signature]

Sample #	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	P	C
1 4693387	EB1J-	1.003	SS0601224A	1.0	10.0	6	-	30A	clear	4533	2/13/2006	N	Y
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

11/26/06

[Signature]

Additional Comment:

DF = Dilution Factor FV = Final Volume page 1 of 1

Spike Solutions:

SS0601224A CLP SURROGATE STANDARD
MS0527624A CLP SPIKE

Solvent Used	Lot No.	Solvent Used	Lot No.
Acetone	B52E31	-	-
Acetone	C6024A	-	-
Hexane	B41642	-	-
Rack ID:	Work Station: bench 5		
Internal Standard	Balance #		
S-bath ID 13	99	°C	S-bath ID 4
			39 °C

1472

Documented temps are NIST corrected.

060250019A

B10060250019A

Prep-Process Worksheet

Florisil

Prep Analysis # 03342 CLP Water Extraction

Prep Group # 10 Pesticides CLP Waters

BATCH NO.

060250019A

Verified: PB

Start Date: 11/26/06

Start Time: 1130

Tech 1: ASL 1312

Tech 2: _____

Sample #	Aliquot (ml)	Final Volume (ml)	D.F.		Comments	Analyses
			Aliq.	F.V.		
1 BLANKA	2.0	2.0	/	/		
2 LCSA			/	/		
3 LCSDA			/	/		
4 4693387			/	/		4533
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

*ASL 1312
11/26/06*

Additional Comment: _____

DF = Dilution Factor FV = Final Volume page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
1:1 Acetone/Hexane	6-129012606A	-	-
-	-	-	-
-	-	-	-

1473

The documented temperatures are NIST corrected.

APPENDIX C

Hydrologic Modeling Summary

INFILTRATION ANALYSIS

For the:
**FORMER DIAMOND SHAMROCK
PAINESVILLE WORK SITE
OPERABLE UNIT 16
FAIRPORT NURSERY ROAD
PAINESVILLE TOWNSHIP, OHIO**

Prepared for:
**TIERRA SOLUTIONS, INC.
1897 FAIRPORT-NURSERY ROAD
PAINESVILLE, OH 44077**

JUNE 2006

Hull
& associates, inc.

INFILTRATION ANALYSIS

For the:
**FORMER DIAMOND SHAMROCK
PAINESVILLE WORK SITE
OPERABLE UNIT 16
FAIRPORT NURSERY ROAD
PAINESVILLE TOWNSHIP, OHIO**

Prepared for:
**TIERRA SOLUTIONS, INC.
1897 FAIRPORT-NURSERY ROAD
PAINESVILLE, OH 44077**

AUGUST 2006

Hull
& associates, inc.

**LAKEVIEW BLUFFS
OU16
INFILTRATION ANALYSIS**

OBJECTIVE

This analysis was performed to estimate the amount of infiltration through the existing, and proposed cap systems at OU16 at the Former Diamond Shamrock Painesville Work Site. The results of the analysis will evaluate the effectiveness of the proposed cover system by comparing the infiltration through the cap system before and after development.

REFERENCES

- 1) The Hydrologic Evaluation of Landfill Performance (HELP) Model, Ver 3.03.
- 2) "Leachate Collection System Design Including Interpreting HELP Model Output", DSIWM Guidance Document #0528 (July 24, 1996).

ASSUMPTIONS

- The clayey soils are saturated and the initial water content of the waste is equal to the field capacity
- Used default HELP model soil characteristic values, rainfall, and climatological data
- The additional water from irrigation was introduced as precipitation, such that the resulting average annual precipitation included the 15 million gallon/year water from irrigation.

ANALYSIS OF EXISTING SYSTEM

The existing system was configured as shown below. Incorporating US EPA suggestion in Comment # 5 of the July 5, 2006 response, the existing cap system was analyzed with an assumed hydraulic conductivity (k) of 2.4 E-7 cm/s and average clay depth (d) of 4-feet. Infiltration of 5682 ft³/acre/year was obtained for the existing system. Thus, infiltration resulting from the proposed system should not exceed 5682 ft³/acre/year.

Existing System Configuration

6" Top Soil
48" Clay Layer
60" Layer of Fly Ash
510" Layer of Solvay Waste
24" Barrier Soil Layer

ANALYSIS OF PROPOSED SYSTEM

The proposed system was configured to achieve infiltration less than or equivalent to the infiltration occurring in the existing system. The configurations utilized are shown below.

Proposed System Configuration

8" Sand Layer (Lateral Drainage)
6" Compacted Clay ($k = 1E-7$)
Clay Fill ($d > 0, k < 7.8 E-7$)
Existing Clay Layer ($d > 24"$, $k = 4.5E-7$)
60" Layer of Fly Ash
510" Layer of Solvay Waste
24" Barrier Soil Layer

The existing clay layer was modified to achieve a minimum thickness of 24 inches. Since a larger portion of the site requires filling to achieve development grades, additional clay fill of variable thickness and maximum conductivity of 7.8 E-7 cm/s was considered over the existing clay cap. Another six inches of compacted clay with conductivity not exceeding 1E-7 cm/s was placed on the clay fill. An eight-inch sand layer was introduced to facilitate lateral drainage. The system was analyzed without clay fill between the existing clay layer and the six-inch compacted layer as scenario 1, and with 24-inch clay fill as scenario 2. Additional 15 million gallons per year (22,530 ft³/acre/year) of water from irrigation expected was taken into consideration.

CONCLUSION

The proposed system with configurations as shown above and a six-inch compacted clay layer underneath the drainage layer would result in maximum average infiltration of 5120 ft³/acre/year. This is about 10 percent lower than the 5682 ft³/acre/year infiltration determined for the existing system.

**HYDROLOGIC EVALUATION
FORMER DIAMOND SHAMROCK PAINESVILLE WORKS SITE
OPERABLE UNIT 16**

**SUMMARY OF RESULTS
AVERAGE ANNUAL TOTALS**

EXISTING SYSTEM

Hydraulic Conductivity (cm/s)	2.40E-07
Area (acre)	90

Evaporative Zone Depth = 6"

CN = 79: Poor Condition, grass cover < 50%

Leaf Area Index = 0

Thickness of Clay Layer	d=4'
Unit	ft ³ /acre/year
Precipitation	137793
Runoff	53544
Evapotranspiration	78564
Perc./Leakage through Layer 2	5682
Perc./Leakage through Layer 5	4681
Change in Water Storage	1028

Average Infiltration 5682 ft³/acre/year

PROPOSED SYSTEM

Hydraulic Conductivity (cm/s)	1.00E-07
Area (acre)	90

With 8" Sand layer added as Drainage Layer,

Evaporative Zone Depth = 6"

CN = 61: Good Condition, grass cover > 75% (More Conservative)

Leaf Area Index = 3.5

With additional 15,000000 GPY = 22,530 ft³/acre/year

Scenario	A	B
Thickness of Clay Layer	d=2'+6"	d=2'+2'+6"
Unit	ft ³ /acre/year	
Precipitation	161556	161556
Runoff	17366	17366
Evapotranspiration	82708	82708
Lateral Drainage	56347	56347
Perc./Leakage through Layer 2	5120	5120
Perc./Leakage through Layer 6/7	4146	4134
Change in Water Storage	989	1000

Average Infiltration 5120 ft³/acre/year

HYDROLOGIC EVALUATION
FORMER DIAMOND SHAMROCK PAINESVILLE WORKS SITE
OPERABLE UNIT 16

TABLE 1

HELP INPUT PARAMETERS - OU16

	HELP	EXISTING	PROPOSED	NOTES: (source, assumptions, etc.)	PARAMETER	DEFINITION	
	DEFAULT						
WEATHER DATA							
Nearby City	Cleveland	Painesville	Painesville	-	-		constant
State	Ohio	Ohio	Ohio	-	-		constant
Latitude	41.24	41.74	41.74	mapquest	-		constant
Maximum leaf area index (MLA)	-	0	3.5	Existing - Bare Ground; Proposed - Good Stand of Grass	Ratio of the leaf area of actively transpiring vegetation to the nominal surface area of the land on which the vegetation is growing. Use values from 0 to 5.		variable
Growing season start day	120	120	120	use default for Cleveland	-		constant
Growing season end day	290	290	290	use default for Cleveland	-		constant
Average wind speed (mph)	10.8	10.8	10.8	use default for Cleveland	-		constant
First quarter relative humidity (%)	72	72	72	use default for Cleveland	-		constant
Second quarter relative humidity (%)	68	68	68	use default for Cleveland	-		constant
Third quarter relative humidity (%)	72	72	72	use default for Cleveland	-		constant
Fourth quarter relative humidity (%)	72	72	72	use default for Cleveland	-		constant
Monthly Precipitation (in)	-	NOAA Data	NOAA Data	NOAA - Painesville 2 N	-		constant
Monthly Mean Temperature	-	NOAA Data	NOAA Data	NOAA - Painesville 2 N	-		constant
Solar Radiation	-	synthetically generated	synthetically generated				constant
SOIL DATA							
Layer Data							
Layer Type	-	3	(2) 6	(Sand Layer) Clay Layer	1. vertical percolation, 2. Lateral drainage, 3. Barrier soil liner, and 4. Geomembrane		constant
Soil texture No.	1 to 56	56	(8) 6	Soil Classification			constant
Layer thickness (in.)	-	48	(8) 6	(Sand Layer) Clay Layer			variable
Total Porosity (vol/vol)	-	0.427	(0.417) 0.427	Default value based on soil texture			constant
Field Capacity (vol/vol)	-	0.418	(0.045) 0.418	Default value based on soil texture			constant
Wilting point (vol/vol)	-	0.367	(0.018) 0.367	Default value based on soil texture			constant
Initial moisture (vol/vol)	-						
Sat. Hyd. Conductivity (cm/sec)	-	2.40E-07	(5.8E-03) 1E-07	Field Test			constant
Drainage Length (ft)	-						
Drain Slope (%)	-						
General Design and Evaporative Zone Data							
Runoff Curve number	-	79	61	SCS AMCII			variable
Fraction of area allowing runoff	-	100	100				
Area projected on horizontal plane	-	1	1				
Evaporative zone depth (in)	6 to 36	6	6		Maximum depth from which water may be removed by evapotranspiration. Where surface vegetation is present, the evaporative depth should be at least equal the expected average depth of root penetration (conservative).		constant
Initial water in evaporative zone (in.)	-						constant
Upper Limit of Evaporative Storage (in.)	-						constant
Lower Limit of Evaporative Storage (in.)	-						constant
Initial Snow Water (in.)	-	0	0				constant
Initial Water in layer materials (in.)	-						constant
Total Initial Water (in.)	-						constant
Total Subsurface Inflow (in/yr)	-						constant

EXISTING SYSTEM – AREA A

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** HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE  
** HELP MODEL VERSION 3.07 (1 NOVEMBER 1997)  
** DEVELOPED BY ENVIRONMENTAL LABORATORY  
** USAE WATERWAYS EXPERIMENT STATION  
** FOR USEPA RISK REDUCTION ENGINEERING LABORATORY  
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PRECIPITATION DATA FILE: C:\HELP3\PAINESVL.D4
TEMPERATURE DATA FILE: C:\HELP3\PAINESVL.D7
SOLAR RADIATION DATA FILE: C:\HELP3\PAINESVL.D13
EVAPOTRANSPIRATION DATA: C:\HELP3\OU16EA.D11
SOIL AND DESIGN DATA FILE: C:\HELP3\OU016EA.D10
OUTPUT DATA FILE: C:\HELP3\OU016EA.OUT

TIME: 17:41 DATE: 6/14/2006

TITLE: OU16 - EXISTING SYSTEM - AREA A (k= 1.36E-7)

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 24

THICKNESS	=	6.00	INCHES
POROSITY	=	0.3650	VOL/VOL
FIELD CAPACITY	=	0.3050	VOL/VOL
WILTING POINT	=	0.2020	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3468	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.270000010000E-05	CM/SEC

LAYER 2

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 48

EVAPOTRANSPIRATION	17.219	62505.629	49.91
PERC./LEAKAGE THROUGH LAYER 2	0.939334	3409.782	2.72
AVG. HEAD ON TOP OF LAYER 2	1.1528		
PERC./LEAKAGE THROUGH LAYER 5	0.749853	2721.965	2.17
AVG. HEAD ON TOP OF LAYER 5	0.0087		
CHANGE IN WATER STORAGE	0.073	266.345	0.21
SOIL WATER AT START OF YEAR	170.508	618945.125	
SOIL WATER AT END OF YEAR	170.497	618905.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.084	306.004	0.24
ANNUAL WATER BUDGET BALANCE	0.0000	-0.052	0.00

ANNUAL TOTALS FOR YEAR 26

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.34	121024.187	100.00
RUNOFF	5.536	20096.514	16.61
EVAPOTRANSPIRATION	26.726	97016.914	80.16
PERC./LEAKAGE THROUGH LAYER 2	1.081426	3925.575	3.24
AVG. HEAD ON TOP OF LAYER 2	1.3073		
PERC./LEAKAGE THROUGH LAYER 5	0.782790	2841.529	2.35
AVG. HEAD ON TOP OF LAYER 5	0.0058		
CHANGE IN WATER STORAGE	0.295	1069.260	0.88
SOIL WATER AT START OF YEAR	170.497	618905.500	
SOIL WATER AT END OF YEAR	170.876	620280.750	
SNOW WATER AT START OF YEAR	0.084	306.004	0.25
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.032	0.00

ANNUAL TOTALS FOR YEAR 27

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.51	118011.336	100.00
RUNOFF	10.062	36523.715	30.95
EVAPOTRANSPIRATION	21.938	79636.187	67.48
PERC./LEAKAGE THROUGH LAYER 2	0.755927	2744.016	2.33
AVG. HEAD ON TOP OF LAYER 2	1.1964		
PERC./LEAKAGE THROUGH LAYER 5	0.804480	2920.264	2.47
AVG. HEAD ON TOP OF LAYER 5	0.0070		
CHANGE IN WATER STORAGE	-0.294	-1068.849	-0.91
SOIL WATER AT START OF YEAR	170.876	620280.750	
SOIL WATER AT END OF YEAR	170.582	619211.875	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.021	0.00

ANNUAL TOTALS FOR YEAR 28

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.06	116377.805	100.00
RUNOFF	13.348	48453.281	41.63
EVAPOTRANSPIRATION	16.488	59849.996	51.43
PERC./LEAKAGE THROUGH LAYER 2	0.705296	2560.226	2.20
AVG. HEAD ON TOP OF LAYER 2	1.1174		
PERC./LEAKAGE THROUGH LAYER 5	0.749729	2721.514	2.34
AVG. HEAD ON TOP OF LAYER 5	0.0058		
CHANGE IN WATER STORAGE	1.475	5353.091	4.60
SOIL WATER AT START OF YEAR	170.582	619211.875	
SOIL WATER AT END OF YEAR	170.879	620291.875	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00

SNOW WATER AT END OF YEAR	1.177	4273.108	3.67
ANNUAL WATER BUDGET BALANCE	0.0000	-0.076	0.00

ANNUAL TOTALS FOR YEAR 29

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.05	112711.531	100.00
RUNOFF	11.729	42577.105	37.78
EVAPOTRANSPIRATION	19.618	71212.492	63.18
PERC./LEAKAGE THROUGH LAYER 2	0.949590	3447.012	3.06
AVG. HEAD ON TOP OF LAYER 2	0.9648		
PERC./LEAKAGE THROUGH LAYER 5	0.859759	3120.924	2.77
AVG. HEAD ON TOP OF LAYER 5	0.0152		
CHANGE IN WATER STORAGE	-1.157	-4199.108	-3.73
SOIL WATER AT START OF YEAR	170.879	620291.875	
SOIL WATER AT END OF YEAR	170.900	620365.875	
SNOW WATER AT START OF YEAR	1.177	4273.108	3.79
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.116	0.00

ANNUAL TOTALS FOR YEAR 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.86	166471.781	100.00
RUNOFF	21.986	79809.086	47.94
EVAPOTRANSPIRATION	22.980	83418.445	50.11
PERC./LEAKAGE THROUGH LAYER 2	1.110625	4031.567	2.42
AVG. HEAD ON TOP OF LAYER 2	1.6172		
PERC./LEAKAGE THROUGH LAYER 5	1.056912	3836.592	2.30

AVG. HEAD ON TOP OF LAYER 5	0.0265		
CHANGE IN WATER STORAGE	-0.163	-592.279	-0.36
SOIL WATER AT START OF YEAR	170.900	620365.875	
SOIL WATER AT END OF YEAR	170.737	619773.562	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.052	0.00

ANNUAL TOTALS FOR YEAR 31

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.31	128175.320	100.00
RUNOFF	12.218	44352.855	34.60
EVAPOTRANSPIRATION	22.225	80676.391	62.94
PERC./LEAKAGE THROUGH LAYER 2	0.793688	2881.088	2.25
AVG. HEAD ON TOP OF LAYER 2	0.9722		
PERC./LEAKAGE THROUGH LAYER 5	0.867592	3149.361	2.46
AVG. HEAD ON TOP OF LAYER 5	0.0153		
CHANGE IN WATER STORAGE	-0.001	-3.332	0.00
SOIL WATER AT START OF YEAR	170.737	619773.562	
SOIL WATER AT END OF YEAR	170.636	619409.812	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.099	360.466	0.28
ANNUAL WATER BUDGET BALANCE	0.0000	0.044	0.00

ANNUAL TOTALS FOR YEAR 32

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.62	151080.656	100.00

RUNOFF	16.228	58908.098	38.99
EVAPOTRANSPIRATION	24.027	87217.172	57.73
PERC./LEAKAGE THROUGH LAYER 2	1.127653	4093.379	2.71
AVG. HEAD ON TOP OF LAYER 2	1.7007		
PERC./LEAKAGE THROUGH LAYER 5	0.757863	2751.044	1.82
AVG. HEAD ON TOP OF LAYER 5	0.0064		
CHANGE IN WATER STORAGE	0.607	2204.285	1.46
SOIL WATER AT START OF YEAR	170.636	619409.812	
SOIL WATER AT END OF YEAR	171.343	621974.562	
SNOW WATER AT START OF YEAR	0.099	360.466	0.24
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.050	0.00

ANNUAL TOTALS FOR YEAR 33

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.30	153548.953	100.00
RUNOFF	15.879	57640.051	37.54
EVAPOTRANSPIRATION	24.879	90309.961	58.82
PERC./LEAKAGE THROUGH LAYER 2	1.233387	4477.194	2.92
AVG. HEAD ON TOP OF LAYER 2	1.7109		
PERC./LEAKAGE THROUGH LAYER 5	0.907018	3292.474	2.14
AVG. HEAD ON TOP OF LAYER 5	0.0151		
CHANGE IN WATER STORAGE	0.635	2306.528	1.50
SOIL WATER AT START OF YEAR	171.343	621974.562	
SOIL WATER AT END OF YEAR	171.633	623028.312	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.345	1252.744	0.82
ANNUAL WATER BUDGET BALANCE	0.0000	-0.058	0.00

ANNUAL TOTALS FOR YEAR 34

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.68	133148.422	100.00
RUNOFF	10.574	38385.406	28.83
EVAPOTRANSPIRATION	25.279	91761.031	68.92
PERC./LEAKAGE THROUGH LAYER 2	1.141008	4141.858	3.11
AVG. HEAD ON TOP OF LAYER 2	1.2122		
PERC./LEAKAGE THROUGH LAYER 5	0.714464	2593.504	1.95
AVG. HEAD ON TOP OF LAYER 5	0.0089		
CHANGE IN WATER STORAGE	0.113	408.550	0.31
SOIL WATER AT START OF YEAR	171.633	623028.312	
SOIL WATER AT END OF YEAR	172.091	624689.625	
SNOW WATER AT START OF YEAR	0.345	1252.744	0.94
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.063	0.00

ANNUAL TOTALS FOR YEAR 35

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.40	150282.078	100.00
RUNOFF	16.466	59771.418	39.77
EVAPOTRANSPIRATION	23.626	85761.398	57.07
PERC./LEAKAGE THROUGH LAYER 2	1.321364	4796.552	3.19
AVG. HEAD ON TOP OF LAYER 2	1.7009		
PERC./LEAKAGE THROUGH LAYER 5	0.682872	2478.824	1.65
AVG. HEAD ON TOP OF LAYER 5	0.0140		
CHANGE IN WATER STORAGE	0.625	2270.301	1.51
SOIL WATER AT START OF YEAR	172.091	624689.625	

SOIL WATER AT END OF YEAR	172.716	626959.937	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.129	0.00

ANNUAL TOTALS FOR YEAR 36

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.43	154020.891	100.00
RUNOFF	19.642	71300.492	46.29
EVAPOTRANSPIRATION	21.567	78286.961	50.83
PERC./LEAKAGE THROUGH LAYER 2	1.258959	4570.020	2.97
AVG. HEAD ON TOP OF LAYER 2	1.5471		
PERC./LEAKAGE THROUGH LAYER 5	0.740287	2687.243	1.74
AVG. HEAD ON TOP OF LAYER 5	0.0051		
CHANGE IN WATER STORAGE	0.481	1746.206	1.13
SOIL WATER AT START OF YEAR	172.716	626959.937	
SOIL WATER AT END OF YEAR	173.197	628706.125	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.019	0.00

ANNUAL TOTALS FOR YEAR 37

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.55	161716.484	100.00
RUNOFF	21.744	78930.258	48.81
EVAPOTRANSPIRATION	21.474	77949.547	48.20
PERC./LEAKAGE THROUGH LAYER 2	1.102037	4000.394	2.47

AVG. HEAD ON TOP OF LAYER 2	1.4581		
PERC./LEAKAGE THROUGH LAYER 5	0.756264	2745.237	1.70
AVG. HEAD ON TOP OF LAYER 5	0.0122		
CHANGE IN WATER STORAGE	0.576	2091.461	1.29
SOIL WATER AT START OF YEAR	173.197	628706.125	
SOIL WATER AT END OF YEAR	173.562	630031.250	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.211	766.325	0.47
ANNUAL WATER BUDGET BALANCE	0.0000	-0.019	0.00

ANNUAL TOTALS FOR YEAR 38

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.17	131297.094	100.00
RUNOFF	15.004	54466.320	41.48
EVAPOTRANSPIRATION	20.439	74195.297	56.51
PERC./LEAKAGE THROUGH LAYER 2	0.837509	3040.157	2.32
AVG. HEAD ON TOP OF LAYER 2	1.0461		
PERC./LEAKAGE THROUGH LAYER 5	0.763833	2772.716	2.11
AVG. HEAD ON TOP OF LAYER 5	0.0103		
CHANGE IN WATER STORAGE	-0.038	-137.245	-0.10
SOIL WATER AT START OF YEAR	173.562	630031.250	
SOIL WATER AT END OF YEAR	173.649	630346.437	
SNOW WATER AT START OF YEAR	0.211	766.325	0.58
SNOW WATER AT END OF YEAR	0.086	313.914	0.24
ANNUAL WATER BUDGET BALANCE	0.0000	0.006	0.00

ANNUAL TOTALS FOR YEAR 39

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.28	106286.406	100.00
RUNOFF	9.371	34018.453	32.01
EVAPOTRANSPIRATION	19.046	69136.297	65.05
PERC./LEAKAGE THROUGH LAYER 2	0.929616	3374.506	3.17
Avg. HEAD ON TOP OF LAYER 2	1.0509		
PERC./LEAKAGE THROUGH LAYER 5	1.041221	3779.633	3.56
Avg. HEAD ON TOP OF LAYER 5	0.0369		
CHANGE IN WATER STORAGE	-0.179	-647.955	-0.61
SOIL WATER AT START OF YEAR	173.649	630346.437	
SOIL WATER AT END OF YEAR	173.556	630007.562	
SNOW WATER AT START OF YEAR	0.086	313.914	0.30
SNOW WATER AT END OF YEAR	0.001	4.831	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.030	0.00

ANNUAL TOTALS FOR YEAR 40

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.71	133257.281	100.00
RUNOFF	15.975	57989.922	43.52
EVAPOTRANSPIRATION	19.551	70970.836	53.26
PERC./LEAKAGE THROUGH LAYER 2	1.091472	3962.042	2.97
Avg. HEAD ON TOP OF LAYER 2	1.8591		
PERC./LEAKAGE THROUGH LAYER 5	1.153397	4186.833	3.14
Avg. HEAD ON TOP OF LAYER 5	0.0940		
CHANGE IN WATER STORAGE	0.030	109.683	0.08
SOIL WATER AT START OF YEAR	173.556	630007.562	
SOIL WATER AT END OF YEAR	173.233	628834.312	
SNOW WATER AT START OF YEAR	0.001	4.831	0.00
SNOW WATER AT END OF YEAR	0.355	1287.772	0.97
ANNUAL WATER BUDGET BALANCE	0.0000	0.006	0.00

ANNUAL TOTALS FOR YEAR 41

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.47	143276.078	100.00
RUNOFF	13.408	48670.605	33.97
EVAPOTRANSPIRATION	24.575	89206.906	62.26
PERC./LEAKAGE THROUGH LAYER 2	1.042816	3785.423	2.64
AVG. HEAD ON TOP OF LAYER 2	1.6904		
PERC./LEAKAGE THROUGH LAYER 5	1.111008	4032.958	2.81
AVG. HEAD ON TOP OF LAYER 5	0.1317		
CHANGE IN WATER STORAGE	0.376	1365.619	0.95
SOIL WATER AT START OF YEAR	173.233	628834.312	
SOIL WATER AT END OF YEAR	173.349	629255.125	
SNOW WATER AT START OF YEAR	0.355	1287.772	0.90
SNOW WATER AT END OF YEAR	0.615	2232.598	1.56
ANNUAL WATER BUDGET BALANCE	0.0000	-0.011	0.00

ANNUAL TOTALS FOR YEAR 42

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.46	135979.781	100.00
RUNOFF	18.526	67249.539	49.46
EVAPOTRANSPIRATION	18.425	66883.430	49.19
PERC./LEAKAGE THROUGH LAYER 2	1.022779	3712.687	2.73
AVG. HEAD ON TOP OF LAYER 2	1.3366		
PERC./LEAKAGE THROUGH LAYER 5	1.082215	3928.440	2.89
AVG. HEAD ON TOP OF LAYER 5	0.0475		
CHANGE IN WATER STORAGE	-0.573	-2081.585	-1.53

SOIL WATER AT START OF YEAR	173.349	629255.125	
SOIL WATER AT END OF YEAR	173.337	629213.125	
SNOW WATER AT START OF YEAR	0.615	2232.598	1.64
SNOW WATER AT END OF YEAR	0.053	192.998	0.14
ANNUAL WATER BUDGET BALANCE	0.0000	-0.048	0.00

ANNUAL TOTALS FOR YEAR 43

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.39	153875.703	100.00
RUNOFF	16.499	59891.898	38.92
EVAPOTRANSPIRATION	24.652	89488.219	58.16
PERC./LEAKAGE THROUGH LAYER 2	1.187069	4309.060	2.80
AVG. HEAD ON TOP OF LAYER 2	1.5859		
PERC./LEAKAGE THROUGH LAYER 5	0.962161	3492.644	2.27
AVG. HEAD ON TOP OF LAYER 5	0.0405		
CHANGE IN WATER STORAGE	0.276	1002.879	0.65
SOIL WATER AT START OF YEAR	173.337	629213.125	
SOIL WATER AT END OF YEAR	173.596	630153.937	
SNOW WATER AT START OF YEAR	0.053	192.998	0.13
SNOW WATER AT END OF YEAR	0.070	255.032	0.17
ANNUAL WATER BUDGET BALANCE	0.0000	0.061	0.00

ANNUAL TOTALS FOR YEAR 44

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.10	145562.984	100.00
RUNOFF	17.441	63310.594	43.49
EVAPOTRANSPIRATION	20.753	75332.133	51.75

PERC./LEAKAGE THROUGH LAYER 2	0.944894	3429.964	2.36
AVG. HEAD ON TOP OF LAYER 2	1.1356		
PERC./LEAKAGE THROUGH LAYER 5	1.007957	3658.884	2.51
AVG. HEAD ON TOP OF LAYER 5	0.0352		
CHANGE IN WATER STORAGE	0.898	3261.428	2.24
SOIL WATER AT START OF YEAR	173.596	630153.937	
SOIL WATER AT END OF YEAR	173.317	629139.812	
SNOW WATER AT START OF YEAR	0.070	255.032	0.18
SNOW WATER AT END OF YEAR	1.248	4530.585	3.11
ANNUAL WATER BUDGET BALANCE	0.0000	-0.057	0.00

ANNUAL TOTALS FOR YEAR 45

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.62	165600.500	100.00
RUNOFF	20.026	72693.508	43.90
EVAPOTRANSPIRATION	25.504	92580.187	55.91
PERC./LEAKAGE THROUGH LAYER 2	1.079665	3919.182	2.37
AVG. HEAD ON TOP OF LAYER 2	1.3640		
PERC./LEAKAGE THROUGH LAYER 5	0.926012	3361.425	2.03
AVG. HEAD ON TOP OF LAYER 5	0.0242		
CHANGE IN WATER STORAGE	-0.836	-3034.555	-1.83
SOIL WATER AT START OF YEAR	173.317	629139.812	
SOIL WATER AT END OF YEAR	173.441	629592.062	
SNOW WATER AT START OF YEAR	1.248	4530.585	2.74
SNOW WATER AT END OF YEAR	0.288	1043.775	0.63
ANNUAL WATER BUDGET BALANCE	0.0000	-0.065	0.00

ANNUAL TOTALS FOR YEAR 46

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.88	155654.406	100.00
RUNOFF	18.311	66468.789	42.70
EVAPOTRANSPIRATION	23.105	83869.508	53.88
PERC./LEAKAGE THROUGH LAYER 2	1.156529	4198.201	2.70
AVG. HEAD ON TOP OF LAYER 2	1.5235		
PERC./LEAKAGE THROUGH LAYER 5	1.133938	4116.194	2.64
AVG. HEAD ON TOP OF LAYER 5	0.0496		
CHANGE IN WATER STORAGE	0.331	1199.926	0.77
SOIL WATER AT START OF YEAR	173.441	629592.062	
SOIL WATER AT END OF YEAR	173.709	630564.812	
SNOW WATER AT START OF YEAR	0.288	1043.775	0.67
SNOW WATER AT END OF YEAR	0.350	1270.952	0.82
ANNUAL WATER BUDGET BALANCE	0.0000	-0.011	0.00

ANNUAL TOTALS FOR YEAR 47

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.87	141098.125	100.00
RUNOFF	15.534	56387.703	39.96
EVAPOTRANSPIRATION	21.658	78618.820	55.72
PERC./LEAKAGE THROUGH LAYER 2	1.129130	4098.742	2.90
AVG. HEAD ON TOP OF LAYER 2	1.5617		
PERC./LEAKAGE THROUGH LAYER 5	0.961688	3490.926	2.47
AVG. HEAD ON TOP OF LAYER 5	0.0334		
CHANGE IN WATER STORAGE	0.716	2600.628	1.84
SOIL WATER AT START OF YEAR	173.709	630564.812	
SOIL WATER AT END OF YEAR	173.849	631073.562	
SNOW WATER AT START OF YEAR	0.350	1270.952	0.90

SNOW WATER AT END OF YEAR	0.926	3362.828	2.38
ANNUAL WATER BUDGET BALANCE	0.0000	0.048	0.00

ANNUAL TOTALS FOR YEAR 48

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.09	127376.727	100.00
RUNOFF	15.459	56117.234	44.06
EVAPOTRANSPIRATION	19.663	71377.836	56.04
PERC./LEAKAGE THROUGH LAYER 2	1.126540	4089.340	3.21
AVG. HEAD ON TOP OF LAYER 2	1.2483		
PERC./LEAKAGE THROUGH LAYER 5	0.991595	3599.489	2.83
AVG. HEAD ON TOP OF LAYER 5	0.0485		
CHANGE IN WATER STORAGE	-1.024	-3717.875	-2.92
SOIL WATER AT START OF YEAR	173.849	631073.562	
SOIL WATER AT END OF YEAR	173.752	630718.562	
SNOW WATER AT START OF YEAR	0.926	3362.828	2.64
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.039	0.00

ANNUAL TOTALS FOR YEAR 49

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.44	150427.187	100.00
RUNOFF	17.042	61863.754	41.13
EVAPOTRANSPIRATION	23.321	84653.859	56.28
PERC./LEAKAGE THROUGH LAYER 2	1.162700	4220.601	2.81
AVG. HEAD ON TOP OF LAYER 2	1.4996		
PERC./LEAKAGE THROUGH LAYER 5	0.982305	3565.766	2.37

AVG. HEAD ON TOP OF LAYER 5	0.0305		
CHANGE IN WATER STORAGE	0.095	343.857	0.23
SOIL WATER AT START OF YEAR	173.752	630718.562	
SOIL WATER AT END OF YEAR	173.846	631062.375	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.059	0.00

ANNUAL TOTALS FOR YEAR 50

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.96	130534.812	100.00
RUNOFF	13.705	49750.473	38.11
EVAPOTRANSPIRATION	20.209	73358.445	56.20
PERC./LEAKAGE THROUGH LAYER 2	0.804060	2918.737	2.24
Avg. Head on top of Layer 2	1.2121		
PERC./LEAKAGE THROUGH LAYER 5	0.987920	3586.151	2.75
Avg. Head on top of Layer 5	0.0317		
CHANGE IN WATER STORAGE	1.058	3839.773	2.94
SOIL WATER AT START OF YEAR	173.846	631062.375	
SOIL WATER AT END OF YEAR	174.008	631649.937	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.896	3252.258	2.49
ANNUAL WATER BUDGET BALANCE	0.0000	-0.033	0.00

ANNUAL TOTALS FOR YEAR 51

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.82	119136.609	100.00

RUNOFF	12.759	46316.766	38.88
EVAPOTRANSPIRATION	20.201	73328.219	61.55
PERC./LEAKAGE THROUGH LAYER 2	1.094150	3971.766	3.33
AVG. HEAD ON TOP OF LAYER 2	1.0583		
PERC./LEAKAGE THROUGH LAYER 5	0.976919	3546.216	2.98
AVG. HEAD ON TOP OF LAYER 5	0.0779		
CHANGE IN WATER STORAGE	-1.117	-4054.574	-3.40
SOIL WATER AT START OF YEAR	174.008	631649.937	
SOIL WATER AT END OF YEAR	173.787	630847.625	
SNOW WATER AT START OF YEAR	0.896	3252.258	2.73
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.013	0.00

ANNUAL TOTALS FOR YEAR 52

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.02	134382.609	100.00
RUNOFF	13.735	49857.082	37.10
EVAPOTRANSPIRATION	19.930	72345.141	53.84
PERC./LEAKAGE THROUGH LAYER 2	0.982699	3567.196	2.65
AVG. HEAD ON TOP OF LAYER 2	1.2487		
PERC./LEAKAGE THROUGH LAYER 5	1.217291	4418.765	3.29
AVG. HEAD ON TOP OF LAYER 5	0.1598		
CHANGE IN WATER STORAGE	2.138	7761.646	5.78
SOIL WATER AT START OF YEAR	173.787	630847.625	
SOIL WATER AT END OF YEAR	173.804	630910.187	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	2.121	7699.056	5.73
ANNUAL WATER BUDGET BALANCE	0.0000	-0.018	0.00

ANNUAL TOTALS FOR YEAR 53

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.35	135580.516	100.00
RUNOFF	15.735	57117.473	42.13
EVAPOTRANSPIRATION	21.897	79484.336	58.63
PERC./LEAKAGE THROUGH LAYER 2	1.050944	3814.926	2.81
AVG. HEAD ON TOP OF LAYER 2	1.2475		
PERC./LEAKAGE THROUGH LAYER 5	0.992781	3603.794	2.66
AVG. HEAD ON TOP OF LAYER 5	0.0750		
CHANGE IN WATER STORAGE	-1.274	-4625.139	-3.41
SOIL WATER AT START OF YEAR	173.804	630910.187	
SOIL WATER AT END OF YEAR	173.589	630128.312	
SNOW WATER AT START OF YEAR	2.121	7699.056	5.68
SNOW WATER AT END OF YEAR	1.062	3855.794	2.84
ANNUAL WATER BUDGET BALANCE	0.0000	0.057	0.00

ANNUAL TOTALS FOR YEAR 54

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.09	120116.727	100.00
RUNOFF	12.330	44758.551	37.26
EVAPOTRANSPIRATION	19.853	72066.234	60.00
PERC./LEAKAGE THROUGH LAYER 2	0.908000	3296.039	2.74
Avg. HEAD ON TOP OF LAYER 2	1.3256		
PERC./LEAKAGE THROUGH LAYER 5	1.142273	4146.450	3.45
Avg. HEAD ON TOP OF LAYER 5	0.0926		
CHANGE IN WATER STORAGE	-0.235	-854.520	-0.71
SOIL WATER AT START OF YEAR	173.589	630128.312	
SOIL WATER AT END OF YEAR	173.667	630411.687	

SNOW WATER AT START OF YEAR	1.062	3855.794	3.21
SNOW WATER AT END OF YEAR	0.749	2717.902	2.26
ANNUAL WATER BUDGET BALANCE	0.0000	0.015	0.00

ANNUAL TOTALS FOR YEAR 55

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.17	131297.047	100.00
RUNOFF	13.648	49542.164	37.73
EVAPOTRANSPIRATION	22.316	81006.812	61.70
PERC./LEAKAGE THROUGH LAYER 2	0.958135	3478.030	2.65
AVG. HEAD ON TOP OF LAYER 2	1.3674		
PERC./LEAKAGE THROUGH LAYER 5	1.105607	4013.353	3.06
AVG. HEAD ON TOP OF LAYER 5	0.0881		
CHANGE IN WATER STORAGE	-0.900	-3265.205	-2.49
SOIL WATER AT START OF YEAR	173.667	630411.687	
SOIL WATER AT END OF YEAR	173.516	629864.375	
SNOW WATER AT START OF YEAR	0.749	2717.902	2.07
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.070	0.00

ANNUAL TOTALS FOR YEAR 56

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.22	145998.594	100.00
RUNOFF	14.383	52208.961	35.76
EVAPOTRANSPIRATION	24.785	89969.008	61.62
PERC./LEAKAGE THROUGH LAYER 2	1.110745	4032.005	2.76
AVG. HEAD ON TOP OF LAYER 2	1.4538		

PERC./LEAKAGE THROUGH LAYER 5	1.155571	4194.725	2.87
AVG. HEAD ON TOP OF LAYER 5	0.0990		
CHANGE IN WATER STORAGE	-0.103	-374.058	-0.26
SOIL WATER AT START OF YEAR	173.516	629864.375	
SOIL WATER AT END OF YEAR	173.328	629180.625	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.085	309.669	0.21
ANNUAL WATER BUDGET BALANCE	0.0000	-0.048	0.00

ANNUAL TOTALS FOR YEAR 57

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.37	121133.125	100.00
RUNOFF	13.651	49552.531	40.91
EVAPOTRANSPIRATION	18.792	68215.078	56.31
PERC./LEAKAGE THROUGH LAYER 2	0.988666	3588.858	2.96
AVG. HEAD ON TOP OF LAYER 2	1.1296		
PERC./LEAKAGE THROUGH LAYER 5	1.075081	3902.543	3.22
AVG. HEAD ON TOP OF LAYER 5	0.1037		
CHANGE IN WATER STORAGE	-0.148	-537.043	-0.44
SOIL WATER AT START OF YEAR	173.328	629180.625	
SOIL WATER AT END OF YEAR	173.265	628953.250	
SNOW WATER AT START OF YEAR	0.085	309.669	0.26
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.015	0.00

ANNUAL TOTALS FOR YEAR 58

INCHES	CU. FEET	PERCENT
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PRECIPITATION	36.66	133075.750	100.00
RUNOFF	10.921	39643.402	29.79
EVAPOTRANSPIRATION	24.293	88182.641	66.26
PERC./LEAKAGE THROUGH LAYER 2	1.148016	4167.300	3.13
AVG. HEAD ON TOP OF LAYER 2	1.2556		
PERC./LEAKAGE THROUGH LAYER 5	0.962018	3492.127	2.62
AVG. HEAD ON TOP OF LAYER 5	0.0314		
CHANGE IN WATER STORAGE	0.484	1757.652	1.32
SOIL WATER AT START OF YEAR	173.265	628953.250	
SOIL WATER AT END OF YEAR	173.617	630229.937	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.133	480.982	0.36
ANNUAL WATER BUDGET BALANCE	0.0000	-0.075	0.00

ANNUAL TOTALS FOR YEAR 59

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.13	120261.930	100.00
RUNOFF	13.218	47980.453	39.90
EVAPOTRANSPIRATION	19.507	70808.898	58.88
PERC./LEAKAGE THROUGH LAYER 2	0.929958	3375.749	2.81
Avg. HEAD ON TOP OF LAYER 2	1.1863		
PERC./LEAKAGE THROUGH LAYER 5	1.085556	3940.570	3.28
Avg. HEAD ON TOP OF LAYER 5	0.0500		
CHANGE IN WATER STORAGE	-0.680	-2467.963	-2.05
SOIL WATER AT START OF YEAR	173.617	630229.937	
SOIL WATER AT END OF YEAR	172.909	627659.562	
SNOW WATER AT START OF YEAR	0.133	480.982	0.40
SNOW WATER AT END OF YEAR	0.161	583.420	0.49
ANNUAL WATER BUDGET BALANCE	0.0000	-0.027	0.00

ANNUAL TOTALS FOR YEAR 60

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.43	136052.422	100.00
RUNOFF	17.573	63789.691	46.89
EVAPOTRANSPIRATION	18.753	68071.898	50.03
PERC./LEAKAGE THROUGH LAYER 2	0.853603	3098.578	2.28
AVG. HEAD ON TOP OF LAYER 2	1.2757		
PERC./LEAKAGE THROUGH LAYER 5	0.930961	3379.389	2.48
AVG. HEAD ON TOP OF LAYER 5	0.0218		
CHANGE IN WATER STORAGE	0.224	811.396	0.60
SOIL WATER AT START OF YEAR	172.909	627659.562	
SOIL WATER AT END OF YEAR	173.293	629054.375	
SNOW WATER AT START OF YEAR	0.161	583.420	0.43
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.054	0.00

ANNUAL TOTALS FOR YEAR 61

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.62	147450.594	100.00
RUNOFF	16.930	61456.926	41.68
EVAPOTRANSPIRATION	22.476	81587.773	55.33
PERC./LEAKAGE THROUGH LAYER 2	1.145866	4159.493	2.82
AVG. HEAD ON TOP OF LAYER 2	1.3392		
PERC./LEAKAGE THROUGH LAYER 5	1.086719	3944.791	2.68
AVG. HEAD ON TOP OF LAYER 5	0.0538		
CHANGE IN WATER STORAGE	0.127	461.172	0.31

SOIL WATER AT START OF YEAR	173.293	629054.375	
SOIL WATER AT END OF YEAR	173.420	629515.562	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.068	0.00

ANNUAL TOTALS FOR YEAR 62

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.57	121859.125	100.00
RUNOFF	12.291	44616.762	36.61
EVAPOTRANSPIRATION	20.269	73577.031	60.38
PERC./LEAKAGE THROUGH LAYER 2	0.981739	3563.711	2.92
AVG. HEAD ON TOP OF LAYER 2	1.0706		
PERC./LEAKAGE THROUGH LAYER 5	1.218431	4422.905	3.63
AVG. HEAD ON TOP OF LAYER 5	0.0938		
CHANGE IN WATER STORAGE	-0.209	-757.616	-0.62
SOIL WATER AT START OF YEAR	173.420	629515.562	
SOIL WATER AT END OF YEAR	173.212	628757.937	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.050	0.00

ANNUAL TOTALS FOR YEAR 63

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.75	173332.500	100.00
RUNOFF	22.180	80512.906	46.45
EVAPOTRANSPIRATION	24.685	89606.734	51.70

PERC./LEAKAGE THROUGH LAYER 2	1.256603	4561.468	2.63
AVG. HEAD ON TOP OF LAYER 2	1.4859		
PERC./LEAKAGE THROUGH LAYER 5	0.911829	3309.938	1.91
AVG. HEAD ON TOP OF LAYER 5	0.0198		
CHANGE IN WATER STORAGE	-0.027	-97.042	-0.06
SOIL WATER AT START OF YEAR	173.212	628757.937	
SOIL WATER AT END OF YEAR	173.185	628660.875	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.033	0.00

ANNUAL TOTALS FOR YEAR 64

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.15	131224.500	100.00
RUNOFF	11.296	41004.199	31.25
EVAPOTRANSPIRATION	21.434	77806.172	59.29
PERC./LEAKAGE THROUGH LAYER 2	0.705982	2562.715	1.95
AVG. HEAD ON TOP OF LAYER 2	0.8098		
PERC./LEAKAGE THROUGH LAYER 5	0.892067	3238.202	2.47
AVG. HEAD ON TOP OF LAYER 5	0.0301		
CHANGE IN WATER STORAGE	2.528	9175.957	6.99
SOIL WATER AT START OF YEAR	173.185	628660.875	
SOIL WATER AT END OF YEAR	173.302	629085.187	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	2.411	8751.618	6.67
ANNUAL WATER BUDGET BALANCE	0.0000	-0.026	0.00

ANNUAL TOTALS FOR YEAR 65

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.02	170682.609	100.00
RUNOFF	19.829	71980.648	42.17
EVAPOTRANSPIRATION	27.506	99845.969	58.50
PERC./LEAKAGE THROUGH LAYER 2	1.268310	4603.965	2.70
AVG. HEAD ON TOP OF LAYER 2	1.8033		
PERC./LEAKAGE THROUGH LAYER 5	0.984647	3574.269	2.09
AVG. HEAD ON TOP OF LAYER 5	0.0389		
CHANGE IN WATER STORAGE	-1.300	-4718.342	-2.76
SOIL WATER AT START OF YEAR	173.302	629085.187	
SOIL WATER AT END OF YEAR	173.587	630121.250	
SNOW WATER AT START OF YEAR	2.411	8751.618	5.13
SNOW WATER AT END OF YEAR	0.826	2997.218	1.76
ANNUAL WATER BUDGET BALANCE	0.0000	0.067	0.00

ANNUAL TOTALS FOR YEAR 66

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.27	120770.117	100.00
RUNOFF	13.861	50315.500	41.66
EVAPOTRANSPIRATION	19.195	69677.656	57.69
PERC./LEAKAGE THROUGH LAYER 2	1.024918	3720.451	3.08
AVG. HEAD ON TOP OF LAYER 2	1.2597		
PERC./LEAKAGE THROUGH LAYER 5	1.216420	4415.605	3.66
AVG. HEAD ON TOP OF LAYER 5	0.1226		
CHANGE IN WATER STORAGE	-1.002	-3638.627	-3.01
SOIL WATER AT START OF YEAR	173.587	630121.250	
SOIL WATER AT END OF YEAR	173.410	629479.875	
SNOW WATER AT START OF YEAR	0.826	2997.218	2.48
SNOW WATER AT END OF YEAR	0.000	0.000	0.00

ANNUAL WATER BUDGET BALANCE 0.0000 -0.017 0.00

ANNUAL TOTALS FOR YEAR 67

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.69	154964.672	100.00
RUNOFF	19.170	69587.852	44.91
EVAPOTRANSPIRATION	21.898	79489.836	51.30
PERC./LEAKAGE THROUGH LAYER 2	1.168772	4242.643	2.74
AVG. HEAD ON TOP OF LAYER 2	1.3350		
PERC./LEAKAGE THROUGH LAYER 5	0.911436	3308.512	2.14
AVG. HEAD ON TOP OF LAYER 5	0.0158		
CHANGE IN WATER STORAGE	0.710	2578.521	1.66
SOIL WATER AT START OF YEAR	173.410	629479.875	
SOIL WATER AT END OF YEAR	173.652	630356.187	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.469	1702.205	1.10
ANNUAL WATER BUDGET BALANCE	0.0000	-0.061	0.00

ANNUAL TOTALS FOR YEAR 68

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.72	165963.625	100.00
RUNOFF	17.667	64130.613	38.64
EVAPOTRANSPIRATION	26.264	95337.359	57.44
PERC./LEAKAGE THROUGH LAYER 2	1.057335	3838.125	2.31
AVG. HEAD ON TOP OF LAYER 2	1.6257		
PERC./LEAKAGE THROUGH LAYER 5	0.974154	3536.180	2.13
AVG. HEAD ON TOP OF LAYER 5	0.0316		

CHANGE IN WATER STORAGE	0.815	2959.525	1.78
SOIL WATER AT START OF YEAR	173.652	630356.187	
SOIL WATER AT END OF YEAR	173.803	630904.562	
SNOW WATER AT START OF YEAR	0.469	1702.205	1.03
SNOW WATER AT END OF YEAR	1.133	4113.320	2.48
ANNUAL WATER BUDGET BALANCE	0.0000	-0.045	0.00

ANNUAL TOTALS FOR YEAR 69

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.39	135725.719	100.00
RUNOFF	15.356	55743.633	41.07
EVAPOTRANSPIRATION	20.901	75871.977	55.90
PERC./LEAKAGE THROUGH LAYER 2	1.040787	3778.055	2.73
AVG. HEAD ON TOP OF LAYER 2	1.2528		
PERC./LEAKAGE THROUGH LAYER 5	1.018986	3698.918	2.73
AVG. HEAD ON TOP OF LAYER 5	0.0304		
CHANGE IN WATER STORAGE	0.113	411.208	0.30
SOIL WATER AT START OF YEAR	173.803	630904.562	
SOIL WATER AT END OF YEAR	173.825	630983.750	
SNOW WATER AT START OF YEAR	1.133	4113.320	3.03
SNOW WATER AT END OF YEAR	1.225	4445.376	3.28
ANNUAL WATER BUDGET BALANCE	0.0000	-0.011	0.00

ANNUAL TOTALS FOR YEAR 70

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.59	150971.687	100.00
RUNOFF	18.740	68025.219	45.06

EVAPOTRANSPIRATION	22.833	82885.437	54.90
PERC./LEAKAGE THROUGH LAYER 2	1.241447	4506.454	2.98
AVG. HEAD ON TOP OF LAYER 2	1.6521		
PERC./LEAKAGE THROUGH LAYER 5	0.976690	3545.385	2.35
AVG. HEAD ON TOP OF LAYER 5	0.0246		
CHANGE IN WATER STORAGE	-0.960	-3484.315	-2.31
SOIL WATER AT START OF YEAR	173.825	630983.750	
SOIL WATER AT END OF YEAR	174.089	631944.812	
SNOW WATER AT START OF YEAR	1.225	4445.376	2.94
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.038	0.00

ANNUAL TOTALS FOR YEAR 71

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.13	142041.922	100.00
RUNOFF	17.332	62916.484	44.29
EVAPOTRANSPIRATION	20.712	75183.047	52.93
PERC./LEAKAGE THROUGH LAYER 2	1.120685	4068.088	2.86
AVG. HEAD ON TOP OF LAYER 2	1.7320		
PERC./LEAKAGE THROUGH LAYER 5	1.091258	3961.268	2.79
AVG. HEAD ON TOP OF LAYER 5	0.0457		
CHANGE IN WATER STORAGE	-0.005	-18.918	-0.01
SOIL WATER AT START OF YEAR	174.089	631944.812	
SOIL WATER AT END OF YEAR	173.907	631281.062	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.178	644.813	0.45
ANNUAL WATER BUDGET BALANCE	0.0000	0.032	0.00

ANNUAL TOTALS FOR YEAR 72

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.71	125997.328	100.00
RUNOFF	13.612	49410.250	39.22
EVAPOTRANSPIRATION	20.261	73547.844	58.37
PERC./LEAKAGE THROUGH LAYER 2	0.801012	2907.674	2.31
AVG. HEAD ON TOP OF LAYER 2	1.4124		
PERC./LEAKAGE THROUGH LAYER 5	0.872687	3167.854	2.51
AVG. HEAD ON TOP OF LAYER 5	0.0223		
CHANGE IN WATER STORAGE	-0.035	-128.651	-0.10
SOIL WATER AT START OF YEAR	173.907	631281.062	
SOIL WATER AT END OF YEAR	174.031	631731.500	
SNOW WATER AT START OF YEAR	0.178	644.813	0.51
SNOW WATER AT END OF YEAR	0.018	65.735	0.05
ANNUAL WATER BUDGET BALANCE	0.0000	0.027	0.00

ANNUAL TOTALS FOR YEAR 73

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.63	158376.937	100.00
RUNOFF	19.559	70999.203	44.83
EVAPOTRANSPIRATION	23.694	86008.414	54.31
PERC./LEAKAGE THROUGH LAYER 2	1.109849	4028.753	2.54
AVG. HEAD ON TOP OF LAYER 2	1.3063		
PERC./LEAKAGE THROUGH LAYER 5	1.005527	3650.062	2.30
AVG. HEAD ON TOP OF LAYER 5	0.0661		
CHANGE IN WATER STORAGE	-0.628	-2280.758	-1.44
SOIL WATER AT START OF YEAR	174.031	631731.500	
SOIL WATER AT END OF YEAR	173.421	629516.500	

SNOW WATER AT START OF YEAR	0.018	65.735	0.04
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.012	0.00

ANNUAL TOTALS FOR YEAR 74

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.49	139718.703	100.00
RUNOFF	18.052	65528.137	46.90
EVAPOTRANSPIRATION	19.098	69325.750	49.62
PERC./LEAKAGE THROUGH LAYER 2	0.657306	2386.021	1.71
AVG. HEAD ON TOP OF LAYER 2	1.2279		
PERC./LEAKAGE THROUGH LAYER 5	1.170372	4248.449	3.04
AVG. HEAD ON TOP OF LAYER 5	0.1999		
CHANGE IN WATER STORAGE	0.170	616.373	0.44
SOIL WATER AT START OF YEAR	173.421	629516.500	
SOIL WATER AT END OF YEAR	173.590	630132.875	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.005	0.00

ANNUAL TOTALS FOR YEAR 75

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.44	128647.164	100.00
RUNOFF	15.702	56996.547	44.30
EVAPOTRANSPIRATION	19.276	69972.883	54.39
PERC./LEAKAGE THROUGH LAYER 2	1.013371	3678.536	2.86
AVG. HEAD ON TOP OF LAYER 2	1.1649		

PERC./LEAKAGE THROUGH LAYER 5	1.032576	3748.250	2.91
AVG. HEAD ON TOP OF LAYER 5	0.0646		
CHANGE IN WATER STORAGE	-0.570	-2070.472	-1.61
SOIL WATER AT START OF YEAR	173.590	630132.875	
SOIL WATER AT END OF YEAR	172.905	627645.937	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.115	416.457	0.32
ANNUAL WATER BUDGET BALANCE	0.0000	-0.040	0.00

ANNUAL TOTALS FOR YEAR 76

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.23	116994.898	100.00
RUNOFF	10.320	37460.738	32.02
EVAPOTRANSPIRATION	20.684	75084.578	64.18
PERC./LEAKAGE THROUGH LAYER 2	0.705942	2562.570	2.19
Avg. Head on Top of Layer 2	1.1934		
PERC./LEAKAGE THROUGH LAYER 5	1.266751	4598.305	3.93
Avg. Head on Top of Layer 5	0.4202		
CHANGE IN WATER STORAGE	-0.041	-148.760	-0.13
SOIL WATER AT START OF YEAR	172.905	627645.937	
SOIL WATER AT END OF YEAR	172.979	627913.625	
SNOW WATER AT START OF YEAR	0.115	416.457	0.36
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.042	0.00

ANNUAL TOTALS FOR YEAR 77

INCHES	CU. FEET	PERCENT
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PRECIPITATION	47.01	170646.266	100.00
RUNOFF	18.830	68354.703	40.06
EVAPOTRANSPIRATION	26.551	96379.773	56.48
PERC./LEAKAGE THROUGH LAYER 2	1.251872	4544.294	2.66
AVG. HEAD ON TOP OF LAYER 2	2.2063		
PERC./LEAKAGE THROUGH LAYER 5	1.178486	4277.903	2.51
AVG. HEAD ON TOP OF LAYER 5	0.1443		
CHANGE IN WATER STORAGE	0.450	1633.910	0.96
SOIL WATER AT START OF YEAR	172.979	627913.625	
SOIL WATER AT END OF YEAR	173.132	628468.625	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.297	1078.908	0.63
ANNUAL WATER BUDGET BALANCE	0.0000	-0.019	0.00

ANNUAL TOTALS FOR YEAR 78

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.93	126795.914	100.00
RUNOFF	13.363	48506.777	38.26
EVAPOTRANSPIRATION	20.759	75354.891	59.43
PERC./LEAKAGE THROUGH LAYER 2	1.080126	3920.858	3.09
AVG. HEAD ON TOP OF LAYER 2	1.4710		
PERC./LEAKAGE THROUGH LAYER 5	1.250083	4537.800	3.58
AVG. HEAD ON TOP OF LAYER 5	0.1655		
CHANGE IN WATER STORAGE	-0.442	-1603.543	-1.26
SOIL WATER AT START OF YEAR	173.132	628468.625	
SOIL WATER AT END OF YEAR	172.962	627851.687	
SNOW WATER AT START OF YEAR	0.297	1078.908	0.85
SNOW WATER AT END OF YEAR	0.025	92.292	0.07
ANNUAL WATER BUDGET BALANCE	0.0000	-0.006	0.00

ANNUAL TOTALS FOR YEAR 79

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.39	153875.672	100.00
RUNOFF	16.143	58600.625	38.08
EVAPOTRANSPIRATION	25.182	91412.273	59.41
PERC./LEAKAGE THROUGH LAYER 2	1.141698	4144.362	2.69
AVG. HEAD ON TOP OF LAYER 2	1.7163		
PERC./LEAKAGE THROUGH LAYER 5	0.900780	3269.833	2.12
AVG. HEAD ON TOP OF LAYER 5	0.0225		
CHANGE IN WATER STORAGE	0.163	592.985	0.39
SOIL WATER AT START OF YEAR	172.962	627851.687	
SOIL WATER AT END OF YEAR	173.151	628537.000	
SNOW WATER AT START OF YEAR	0.025	92.292	0.06
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.044	0.00

ANNUAL TOTALS FOR YEAR 80

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.02	163422.609	100.00
RUNOFF	17.107	62096.641	38.00
EVAPOTRANSPIRATION	24.638	89436.992	54.73
PERC./LEAKAGE THROUGH LAYER 2	1.249254	4534.791	2.77
AVG. HEAD ON TOP OF LAYER 2	1.8072		
PERC./LEAKAGE THROUGH LAYER 5	0.914853	3320.917	2.03
AVG. HEAD ON TOP OF LAYER 5	0.0300		
CHANGE IN WATER STORAGE	2.360	8568.042	5.24
SOIL WATER AT START OF YEAR	173.151	628537.000	

SOIL WATER AT END OF YEAR	173.518	629871.937	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.993	7233.046	4.43
ANNUAL WATER BUDGET BALANCE	0.0000	0.024	0.00

ANNUAL TOTALS FOR YEAR 81

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.94	126832.234	100.00
RUNOFF	11.839	42975.770	33.88
EVAPOTRANSPIRATION	23.171	84110.758	66.32
PERC./LEAKAGE THROUGH LAYER 2	0.962593	3494.211	2.75
AVG. HEAD ON TOP OF LAYER 2	0.9014		
PERC./LEAKAGE THROUGH LAYER 5	0.846978	3074.532	2.42
AVG. HEAD ON TOP OF LAYER 5	0.0151		
CHANGE IN WATER STORAGE	-0.917	-3328.819	-2.62
SOIL WATER AT START OF YEAR	173.518	629871.937	
SOIL WATER AT END OF YEAR	173.590	630132.875	
SNOW WATER AT START OF YEAR	1.993	7233.046	5.70
SNOW WATER AT END OF YEAR	1.004	3643.288	2.87
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

ANNUAL TOTALS FOR YEAR 82

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.25	146107.453	100.00
RUNOFF	14.811	53765.297	36.80
EVAPOTRANSPIRATION	25.220	91548.078	62.66
PERC./LEAKAGE THROUGH LAYER 2	1.109064	4025.901	2.76

AVG. HEAD ON TOP OF LAYER 2	1.4943		
PERC./LEAKAGE THROUGH LAYER 5	0.947114	3438.025	2.35
AVG. HEAD ON TOP OF LAYER 5	0.0162		
CHANGE IN WATER STORAGE	-0.728	-2643.911	-1.81
SOIL WATER AT START OF YEAR	173.590	630132.875	
SOIL WATER AT END OF YEAR	173.815	630947.625	
SNOW WATER AT START OF YEAR	1.004	3643.288	2.49
SNOW WATER AT END OF YEAR	0.051	184.654	0.13
ANNUAL WATER BUDGET BALANCE	0.0000	-0.031	0.00

ANNUAL TOTALS FOR YEAR 83

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.69	115034.719	100.00
RUNOFF	10.550	38295.027	33.29
EVAPOTRANSPIRATION	20.649	74954.656	65.16
PERC./LEAKAGE THROUGH LAYER 2	0.813493	2952.980	2.57
Avg. HEAD ON TOP OF LAYER 2	1.0348		
PERC./LEAKAGE THROUGH LAYER 5	1.088467	3951.136	3.43
Avg. HEAD ON TOP OF LAYER 5	0.0644		
CHANGE IN WATER STORAGE	-0.597	-2166.099	-1.88
SOIL WATER AT START OF YEAR	173.815	630947.625	
SOIL WATER AT END OF YEAR	173.269	628966.187	
SNOW WATER AT START OF YEAR	0.051	184.654	0.16
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.006	0.00

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.65	158449.484	100.00
RUNOFF	18.391	66758.320	42.13
EVAPOTRANSPIRATION	23.467	85183.805	53.76
PERC./LEAKAGE THROUGH LAYER 2	1.151056	4178.332	2.64
AVG. HEAD ON TOP OF LAYER 2	1.4911		
PERC./LEAKAGE THROUGH LAYER 5	0.965976	3506.494	2.21
AVG. HEAD ON TOP OF LAYER 5	0.0316		
CHANGE IN WATER STORAGE	0.827	3000.907	1.89
SOIL WATER AT START OF YEAR	173.269	628966.187	
SOIL WATER AT END OF YEAR	173.519	629873.687	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.577	2093.407	1.32
ANNUAL WATER BUDGET BALANCE	0.0000	-0.053	0.00

ANNUAL TOTALS FOR YEAR 85

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.05	152641.500	100.00
RUNOFF	22.870	83016.422	54.39
EVAPOTRANSPIRATION	17.912	65019.809	42.60
PERC./LEAKAGE THROUGH LAYER 2	1.144223	4153.531	2.72
AVG. HEAD ON TOP OF LAYER 2	1.7368		
PERC./LEAKAGE THROUGH LAYER 5	1.159621	4209.423	2.76
AVG. HEAD ON TOP OF LAYER 5	0.0824		
CHANGE IN WATER STORAGE	0.109	395.894	0.26
SOIL WATER AT START OF YEAR	173.519	629873.687	
SOIL WATER AT END OF YEAR	173.710	630565.500	
SNOW WATER AT START OF YEAR	0.577	2093.407	1.37
SNOW WATER AT END OF YEAR	0.495	1797.487	1.18

ANNUAL WATER BUDGET BALANCE	0.0000	-0.048	0.00
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ANNUAL TOTALS FOR YEAR 86

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.20	142295.969	100.00
RUNOFF	18.311	66467.305	46.71
EVAPOTRANSPIRATION	19.049	69146.391	48.59
PERC./LEAKAGE THROUGH LAYER 2	1.150105	4174.879	2.93
AVG. HEAD ON TOP OF LAYER 2	1.4615		
PERC./LEAKAGE THROUGH LAYER 5	0.994529	3610.141	2.54
AVG. HEAD ON TOP OF LAYER 5	0.0344		
CHANGE IN WATER STORAGE	0.846	3072.148	2.16
SOIL WATER AT START OF YEAR	173.710	630565.500	
SOIL WATER AT END OF YEAR	173.603	630196.875	
SNOW WATER AT START OF YEAR	0.495	1797.487	1.26
SNOW WATER AT END OF YEAR	1.443	5238.252	3.68
ANNUAL WATER BUDGET BALANCE	0.0000	-0.028	0.00

ANNUAL TOTALS FOR YEAR 87

	INCHES	CU. FEET	PERCENT
PRECIPITATION	27.99	101603.711	100.00
RUNOFF	10.210	37063.383	36.48
EVAPOTRANSPIRATION	17.976	65251.605	64.22
PERC./LEAKAGE THROUGH LAYER 2	0.671078	2436.014	2.40
AVG. HEAD ON TOP OF LAYER 2	0.8379		
PERC./LEAKAGE THROUGH LAYER 5	0.846716	3073.579	3.03
AVG. HEAD ON TOP OF LAYER 5	0.0253		

CHANGE IN WATER STORAGE	-1.043	-3784.921	-3.73
SOIL WATER AT START OF YEAR	173.608	630196.875	
SOIL WATER AT END OF YEAR	173.583	630105.312	
SNOW WATER AT START OF YEAR	1.443	5238.252	5.16
SNOW WATER AT END OF YEAR	0.426	1544.890	1.52
ANNUAL WATER BUDGET BALANCE	0.0000	0.066	0.00

ANNUAL TOTALS FOR YEAR 88

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.15	142114.500	100.00
RUNOFF	16.889	61306.758	43.14
EVAPOTRANSPIRATION	21.747	78942.117	55.55
PERC./LEAKAGE THROUGH LAYER 2	1.099978	3992.919	2.81
Avg. HEAD ON TOP OF LAYER 2	1.4639		
PERC./LEAKAGE THROUGH LAYER 5	1.048773	3807.044	2.68
Avg. HEAD ON TOP OF LAYER 5	0.0416		
CHANGE IN WATER STORAGE	-0.535	-1941.367	-1.37
SOIL WATER AT START OF YEAR	173.583	630105.312	
SOIL WATER AT END OF YEAR	173.474	629708.875	
SNOW WATER AT START OF YEAR	0.426	1544.890	1.09
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.045	0.00

ANNUAL TOTALS FOR YEAR 89

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.36	131986.766	100.00
RUNOFF	12.628	45841.191	34.73

EVAPOTRANSPIRATION	22.341	81099.477	61.45
PERC./LEAKAGE THROUGH LAYER 2	1.224972	4446.647	3.37
AVG. HEAD ON TOP OF LAYER 2	1.6133		
PERC./LEAKAGE THROUGH LAYER 5	1.235490	4484.829	3.40
AVG. HEAD ON TOP OF LAYER 5	0.1862		
CHANGE IN WATER STORAGE	0.155	561.316	0.43
SOIL WATER AT START OF YEAR	173.474	629708.875	
SOIL WATER AT END OF YEAR	173.628	630270.187	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.052	0.00

ANNUAL TOTALS FOR YEAR 90

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.52	172497.656	100.00
RUNOFF	22.312	80993.773	46.95
EVAPOTRANSPIRATION	23.319	84647.016	49.07
PERC./LEAKAGE THROUGH LAYER 2	0.973418	3533.506	2.05
AVG. HEAD ON TOP OF LAYER 2	1.9419		
PERC./LEAKAGE THROUGH LAYER 5	1.085058	3938.759	2.28
AVG. HEAD ON TOP OF LAYER 5	0.0669		
CHANGE IN WATER STORAGE	0.804	2918.094	1.69
SOIL WATER AT START OF YEAR	173.628	630270.187	
SOIL WATER AT END OF YEAR	173.618	630235.062	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.814	2953.210	1.71
ANNUAL WATER BUDGET BALANCE	0.0000	0.016	0.00

ANNUAL TOTALS FOR YEAR 91

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.68	147668.453	100.00
RUNOFF	16.392	59503.445	40.30
EVAPOTRANSPIRATION	24.489	88894.992	60.20
PERC./LEAKAGE THROUGH LAYER 2	1.044361	3791.030	2.57
AVG. HEAD ON TOP OF LAYER 2	1.0565		
PERC./LEAKAGE THROUGH LAYER 5	0.884696	3211.446	2.17
AVG. HEAD ON TOP OF LAYER 5	0.0311		
CHANGE IN WATER STORAGE	-1.086	-3941.413	-2.67
SOIL WATER AT START OF YEAR	173.618	630235.062	
SOIL WATER AT END OF YEAR	173.346	629246.812	
SNOW WATER AT START OF YEAR	0.814	2953.210	2.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.017	0.00

ANNUAL TOTALS FOR YEAR 92

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.81	159030.297	100.00
RUNOFF	16.544	60056.344	37.76
EVAPOTRANSPIRATION	25.794	93632.883	58.88
PERC./LEAKAGE THROUGH LAYER 2	1.151440	4179.728	2.63
AVG. HEAD ON TOP OF LAYER 2	1.4926		
PERC./LEAKAGE THROUGH LAYER 5	1.001567	3635.687	2.29
AVG. HEAD ON TOP OF LAYER 5	0.0221		
CHANGE IN WATER STORAGE	0.470	1705.384	1.07
SOIL WATER AT START OF YEAR	173.346	629246.812	
SOIL WATER AT END OF YEAR	173.816	630952.250	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00

SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.003	0.00

ANNUAL TOTALS FOR YEAR 93

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.29	113582.711	100.00
RUNOFF	11.102	40299.082	35.48
EVAPOTRANSPIRATION	18.769	68132.437	59.98
PERC./LEAKAGE THROUGH LAYER 2	0.857824	3113.902	2.74
AVG. HEAD ON TOP OF LAYER 2	1.0720		
PERC./LEAKAGE THROUGH LAYER 5	1.129355	4099.557	3.61
AVG. HEAD ON TOP OF LAYER 5	0.0591		
CHANGE IN WATER STORAGE	0.290	1051.606	0.93
SOIL WATER AT START OF YEAR	173.816	630952.250	
SOIL WATER AT END OF YEAR	173.598	630162.312	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.507	1841.515	1.62
ANNUAL WATER BUDGET BALANCE	0.0000	0.027	0.00

ANNUAL TOTALS FOR YEAR 94

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.27	138920.078	100.00
RUNOFF	16.126	58537.543	42.14
EVAPOTRANSPIRATION	21.391	77649.641	55.90
PERC./LEAKAGE THROUGH LAYER 2	1.114203	4044.559	2.91
AVG. HEAD ON TOP OF LAYER 2	1.4381		
PERC./LEAKAGE THROUGH LAYER 5	0.928198	3369.358	2.43

AVG. HEAD ON TOP OF LAYER 5	0.0420		
CHANGE IN WATER STORAGE	-0.175	-636.459	-0.46
SOIL WATER AT START OF YEAR	173.598	630162.312	
SOIL WATER AT END OF YEAR	173.842	631048.187	
SNOW WATER AT START OF YEAR	0.507	1841.515	1.33
SNOW WATER AT END OF YEAR	0.088	319.157	0.23
ANNUAL WATER BUDGET BALANCE	0.0000	-0.006	0.00

ANNUAL TOTALS FOR YEAR 95

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.49	128828.695	100.00
RUNOFF	11.285	40963.125	31.80
EVAPOTRANSPIRATION	23.153	84045.523	65.24
PERC./LEAKAGE THROUGH LAYER 2	1.044062	3789.945	2.94
Avg. Head on top of Layer 2	1.3271		
PERC./LEAKAGE THROUGH LAYER 5	1.168068	4240.088	3.29
Avg. Head on top of Layer 5	0.1312		
CHANGE IN WATER STORAGE	-0.116	-419.972	-0.33
SOIL WATER AT START OF YEAR	173.842	631048.187	
SOIL WATER AT END OF YEAR	173.638	630305.062	
SNOW WATER AT START OF YEAR	0.088	319.157	0.25
SNOW WATER AT END OF YEAR	0.177	642.345	0.50
ANNUAL WATER BUDGET BALANCE	0.0000	-0.071	0.00

ANNUAL TOTALS FOR YEAR 96

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.20	127776.000	100.00

RUNOFF	12.908	46856.668	36.67
EVAPOTRANSPIRATION	22.005	79878.531	62.51
PERC./LEAKAGE THROUGH LAYER 2	0.978395	3551.573	2.78
AVG. HEAD ON TOP OF LAYER 2	1.0287		
PERC./LEAKAGE THROUGH LAYER 5	1.057956	3840.382	3.01
AVG. HEAD ON TOP OF LAYER 5	0.0496		
CHANGE IN WATER STORAGE	-0.771	-2799.596	-2.19
SOIL WATER AT START OF YEAR	173.638	630305.062	
SOIL WATER AT END OF YEAR	173.043	628147.812	
SNOW WATER AT START OF YEAR	0.177	642.345	0.50
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.016	0.00

ANNUAL TOTALS FOR YEAR 97

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.38	157469.406	100.00
RUNOFF	19.509	70817.969	44.97
EVAPOTRANSPIRATION	22.588	81996.195	52.07
PERC./LEAKAGE THROUGH LAYER 2	0.686972	2493.707	1.58
AVG. HEAD ON TOP OF LAYER 2	1.0766		
PERC./LEAKAGE THROUGH LAYER 5	1.048630	3806.528	2.42
AVG. HEAD ON TOP OF LAYER 5	0.0577		
CHANGE IN WATER STORAGE	0.234	848.676	0.54
SOIL WATER AT START OF YEAR	173.043	628147.812	
SOIL WATER AT END OF YEAR	173.277	628996.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.033	0.00

ANNUAL TOTALS FOR YEAR 98

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.64	107593.187	100.00
RUNOFF	7.598	27582.527	25.64
EVAPOTRANSPIRATION	20.442	74205.805	68.97
PERC./LEAKAGE THROUGH LAYER 2	0.959826	3484.168	3.24
AVG. HEAD ON TOP OF LAYER 2	1.5437		
PERC./LEAKAGE THROUGH LAYER 5	1.046344	3798.229	3.53
AVG. HEAD ON TOP OF LAYER 5	0.0403		
CHANGE IN WATER STORAGE	0.553	2006.619	1.87
SOIL WATER AT START OF YEAR	173.277	628996.500	
SOIL WATER AT END OF YEAR	173.167	628596.125	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.663	2406.973	2.24
ANNUAL WATER BUDGET BALANCE	0.0000	0.009	0.00

ANNUAL TOTALS FOR YEAR 99

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.89	152060.719	100.00
RUNOFF	16.582	60192.234	39.58
EVAPOTRANSPIRATION	24.931	90499.031	59.52
PERC./LEAKAGE THROUGH LAYER 2	1.122518	4074.742	2.68
AVG. HEAD ON TOP OF LAYER 2	1.4015		
PERC./LEAKAGE THROUGH LAYER 5	1.232380	4473.541	2.94
AVG. HEAD ON TOP OF LAYER 5	0.1426		
CHANGE IN WATER STORAGE	-0.855	-3104.104	-2.04
SOIL WATER AT START OF YEAR	173.167	628596.125	

SOIL WATER AT END OF YEAR	172.975	627899.000	
SNOW WATER AT START OF YEAR	0.663	2406.973	1.58
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.012	0.00

ANNUAL TOTALS FOR YEAR 100

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.15	153004.484	100.00
RUNOFF	21.633	78526.266	51.32
EVAPOTRANSPIRATION	19.684	71453.102	46.70
PERC./LEAKAGE THROUGH LAYER 2	0.739839	2685.614	1.76
AVG. HEAD ON TOP OF LAYER 2	1.0696		
PERC./LEAKAGE THROUGH LAYER 5	1.122918	4076.193	2.66
AVG. HEAD ON TOP OF LAYER 5	0.0528		
CHANGE IN WATER STORAGE	-0.290	-1051.069	-0.69
SOIL WATER AT START OF YEAR	172.975	627899.000	
SOIL WATER AT END OF YEAR	172.685	626847.937	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.003	0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 100

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	2.23 3.40	1.90 4.05	2.81 4.14	3.06 3.37	2.85 3.57	3.70 2.86

STD. DEVIATIONS	0.74 1.72	0.64 1.83	0.96 1.94	1.17 1.58	1.25 1.44	1.51 1.16
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RUNOFF

TOTALS	1.202 0.830	1.591 1.190	2.433 1.568	0.916 1.095	0.421 1.700	0.850 1.389
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STD. DEVIATIONS	0.920 1.011	0.880 1.210	1.162 1.343	0.885 1.098	0.605 1.261	0.794 1.272
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EVAPOTRANSPIRATION

TOTALS	0.627 2.542	0.451 2.696	0.811 2.423	2.396 2.033	2.454 1.572	2.763 0.984
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STD. DEVIATIONS	0.217 0.925	0.139 0.911	0.483 0.793	0.728 0.543	0.846 0.273	1.027 0.259
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PERCOLATION/LEAKAGE THROUGH LAYER 2

TOTALS	0.1019 0.0517	0.0661 0.0667	0.1107 0.0756	0.0926 0.0927	0.0505 0.1244	0.0527 0.1353
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STD. DEVIATIONS	0.0456 0.0327	0.0426 0.0307	0.0445 0.0374	0.0410 0.0394	0.0325 0.0337	0.0308 0.0350
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PERCOLATION/LEAKAGE THROUGH LAYER 5

TOTALS	0.0701 0.0710	0.0454 0.0770	0.0454 0.0791	0.0661 0.0834	0.0707 0.0794	0.0620 0.0776
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STD. DEVIATIONS	0.0392 0.0327	0.0370 0.0310	0.0347 0.0319	0.0326 0.0310	0.0332 0.0321	0.0328 0.0370
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AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	1.2762 0.6654	0.2602 0.9594	0.8051 1.3623	1.3646 1.7325	0.6556 3.0918	0.7511 3.2212
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STD. DEVIATIONS	1.3802 0.4716	0.3757 0.5502	0.6835 0.8206	0.8457 0.9890	0.5321 1.1919	0.4720 1.5027
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DAILY AVERAGE HEAD ON TOP OF LAYER 5

AVERAGES	0.0764 0.0267	0.0524 0.0315	0.0236 0.0424	0.0219 0.0594	0.0322 0.0622	0.0258 0.0746
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STD. DEVIATIONS	0.1166 0.0600	0.1005 0.0602	0.0650 0.0624	0.0514 0.0796	0.0641 0.0863	0.0616 0.1056
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	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.96 (4.779)	137793.0	100.00
RUNOFF	15.185 (3.5743)	55120.37	40.002
EVAPOTRANSPIRATION	21.753 (2.4231)	78962.87	57.305
PERCOLATION/LEAKAGE THROUGH LAYER 2	1.02100 (0.16377)	3706.244	2.68972
AVERAGE HEAD ON TOP OF LAYER 2	1.345 (0.284)		
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.82704 (0.34099)	3002.161	2.17875
AVERAGE HEAD ON TOP OF LAYER 5	0.044 (0.059)		
CHANGE IN WATER STORAGE	0.195 (0.8451)	707.59	0.514

PEAK DAILY VALUE'S FOR YEARS 1 THROUGH 100

	(INCHES)	(CU. FT.)
PRECIPITATION	3.32	12051.600
RUNOFF	2.803	10174.3701
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.004982	18.08437
AVERAGE HEAD ON TOP OF LAYER 2	6.000	
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.003474	12.60914
AVERAGE HEAD ON TOP OF LAYER 5	0.509	
SNOW WATER	4.73	17174.4043
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.3650
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.2020

FINAL WATER STORAGE AT END OF YEAR 100

LAYER	(INCHES)	(VOL/VOL)
1	2.1776	0.3629
2	33.3060	0.4270
3	13.1605	0.2193
4	113.7934	0.2231
5	10.2480	0.4270
SNOW WATER	0.000	

EXISTING SYSTEM – AREA B

**
**
** HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
** HELP MODEL VERSION 3.07 (1 NOVEMBER 1997)
** DEVELOPED BY ENVIRONMENTAL LABORATORY
** USAE WATERWAYS EXPERIMENT STATION
** FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
**

PRECIPITATION DATA FILE: C:\HELP3\PAINESVL.D4
TEMPERATURE DATA FILE: C:\HELP3\PAINESVL.D7
SOLAR RADIATION DATA FILE: C:\HELP3\PAINESVL.D13
EVAPOTRANSPIRATION DATA: C:\HELP3\OU16EA.D11
SOIL AND DESIGN DATA FILE: C:\HELP3\OU016EB.D10
OUTPUT DATA FILE: C:\HELP3\OU016EB.OUT

TIME: 17:49 DATE: 6/14/2006

TITLE: OU16 - EXISTING SYSTEM - AREA B (k=3.67E-8)

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 24

THICKNESS = 6.00 INCHES
POROSITY = 0.3650 VOL/VOL
FIELD CAPACITY = 0.3050 VOL/VOL
WILTING POINT = 0.2020 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.3497 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.270000010000E-05 CM/SEC

LAYER 2

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 49

THICKNESS = 30.00 INCHES
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.367000013000E-07 CM/SEC

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 30
THICKNESS = 60.00 INCHES
POROSITY = 0.5410 VOL/VOL
FIELD CAPACITY = 0.1870 VOL/VOL
WILTING POINT = 0.0470 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.1905 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.499999987000E-04 CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 30
THICKNESS = 510.00 INCHES
POROSITY = 0.5410 VOL/VOL
FIELD CAPACITY = 0.1870 VOL/VOL
WILTING POINT = 0.0470 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.1870 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.499999987000E-04 CM/SEC

LAYER 5

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16
THICKNESS = 24.00 INCHES
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.10000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER = 79.00
FRACTION OF AREA ALLOWING RUNOFF = 100.0 PERCENT
AREA PROJECTED ON HORIZONTAL PLANE = 1.000 ACRES

EVAPORATIVE ZONE DEPTH	=	6.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	2.098	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	2.190	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	1.212	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	131.960	INCHES
TOTAL INITIAL WATER	=	131.960	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
PAINESVILLE OHIO

STATION LATITUDE	=	41.74 DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	120
END OF GROWING SEASON (JULIAN DATE)	=	290
EVAPORATIVE ZONE DEPTH	=	6.0 INCHES
AVERAGE ANNUAL WIND SPEED	=	10.80 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	72.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	68.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	72.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	72.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR CLEVELAND OHIO

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
-----	-----	-----	-----	-----	-----
2.32	1.80	2.76	3.31	3.05	3.78
3.20	3.78	4.00	3.27	3.56	3.02

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR CLEVELAND OHIO

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
-----	-----	-----	-----	-----	-----
27.60	29.20	37.50	47.60	58.60	67.80
72.50	71.30	65.20	54.60	43.90	33.30

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR CLEVELAND OHIO
AND STATION LATITUDE = 41.24 DEGREES

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.25	153367.469	100.00
RUNOFF	16.908	61375.816	40.02
EVAPOTRANSPIRATION	24.947	90555.797	59.04
PERC./LEAKAGE THROUGH LAYER 2	0.395024	1433.935	0.93
AVG. HEAD ON TOP OF LAYER 2	2.1084		
PERC./LEAKAGE THROUGH LAYER 5	0.219987	798.553	0.52
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.176	637.310	0.42
SOIL WATER AT START OF YEAR	131.960	479013.500	
SOIL WATER AT END OF YEAR	132.135	479650.812	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.004	0.00

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.52	147087.625	100.00
RUNOFF	17.051	61896.793	42.08
EVAPOTRANSPIRATION	21.863	79363.695	53.96
PERC./LEAKAGE THROUGH LAYER 2	0.369009	1339.501	0.91
AVG. HEAD ON TOP OF LAYER 2	1.4631		
PERC./LEAKAGE THROUGH LAYER 5	0.206350	749.052	0.51
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	1.399	5078.037	3.45
SOIL WATER AT START OF YEAR	132.135	479650.812	
SOIL WATER AT END OF YEAR	132.386	480561.625	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.148	4167.213	2.83

ANNUAL WATER BUDGET BALANCE 0.0000 0.049 0.00

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.88	130244.406	100.00
RUNOFF	16.047	58249.574	44.72
EVAPOTRANSPIRATION	20.323	73772.609	56.64
PERC./LEAKAGE THROUGH LAYER 2	0.366289	1329.630	1.02
AVG. HEAD ON TOP OF LAYER 2	1.3541		
PERC./LEAKAGE THROUGH LAYER 5	0.198826	721.737	0.55
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	-0.689	-2499.470	-1.92
SOIL WATER AT START OF YEAR	132.386	480561.625	
SOIL WATER AT END OF YEAR	132.546	481143.375	
SNOW WATER AT START OF YEAR	1.148	4167.213	3.20
SNOW WATER AT END OF YEAR	0.299	1085.988	0.83
ANNUAL WATER BUDGET BALANCE	0.0000	-0.045	0.00

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.77	147995.094	100.00
RUNOFF	20.178	73246.242	49.49
EVAPOTRANSPIRATION	20.524	74503.484	50.34
PERC./LEAKAGE THROUGH LAYER 2	0.366037	1328.714	0.90
AVG. HEAD ON TOP OF LAYER 2	1.4725		
PERC./LEAKAGE THROUGH LAYER 5	0.209323	759.843	0.51
AVG. HEAD ON TOP OF LAYER 5	0.0002		

CHANGE IN WATER STORAGE	-0.142	-514.481	-0.35
SOIL WATER AT START OF YEAR	132.546	481143.375	
SOIL WATER AT END OF YEAR	132.704	481714.906	
SNOW WATER AT START OF YEAR	0.299	1085.988	0.73
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.76	147958.781	100.00
RUNOFF	16.238	58945.348	39.84
EVAPOTRANSPIRATION	24.463	88799.234	60.02
PERC./LEAKAGE THROUGH LAYER 2	0.372359	1351.662	0.91
AVG. HEAD ON TOP OF LAYER 2	1.7263		
PERC./LEAKAGE THROUGH LAYER 5	0.192429	698.517	0.47
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	-0.133	-484.270	-0.33
SOIL WATER AT START OF YEAR	132.704	481714.906	
SOIL WATER AT END OF YEAR	132.570	481230.625	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.050	0.00

ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.59	147341.719	100.00
RUNOFF	16.947	61519.176	41.75

EVAPOTRANSPIRATION	22.797	82754.375	56.16
PERC./LEAKAGE THROUGH LAYER 2	0.297879	1081.302	0.73
AVG. HEAD ON TOP OF LAYER 2	1.4974		
PERC./LEAKAGE THROUGH LAYER 5	0.204076	740.798	0.50
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.641	2327.345	1.58
SOIL WATER AT START OF YEAR	132.570	481230.625	
SOIL WATER AT END OF YEAR	132.977	482705.750	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.235	852.214	0.58
ANNUAL WATER BUDGET BALANCE	0.0000	0.022	0.00

ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.95	130498.461	100.00
RUNOFF	15.086	54760.371	41.96
EVAPOTRANSPIRATION	20.764	75373.039	57.76
PERC./LEAKAGE THROUGH LAYER 2	0.325006	1179.771	0.90
Avg. HEAD ON TOP OF LAYER 2	1.3823		
PERC./LEAKAGE THROUGH LAYER 5	0.155338	563.877	0.43
Avg. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	-0.055	-198.730	-0.15
SOIL WATER AT START OF YEAR	132.977	482705.750	
SOIL WATER AT END OF YEAR	133.157	483359.250	
SNOW WATER AT START OF YEAR	0.235	852.214	0.65
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.093	0.00

ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.27	128030.133	100.00
RUNOFF	15.308	55568.664	43.40
EVAPOTRANSPIRATION	19.393	70395.703	54.98
PERC./LEAKAGE THROUGH LAYER 2	0.292160	1060.543	0.83
AVG. HEAD ON TOP OF LAYER 2	1.6817		
PERC./LEAKAGE THROUGH LAYER 5	0.186432	676.749	0.53
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.383	1388.929	1.08
SOIL WATER AT START OF YEAR	133.157	483359.250	
SOIL WATER AT END OF YEAR	133.258	483725.969	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.282	1022.196	0.80
ANNUAL WATER BUDGET BALANCE	0.0000	0.083	0.00

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.13	131151.891	100.00
RUNOFF	12.383	44951.945	34.27
EVAPOTRANSPIRATION	23.609	85702.375	65.35
PERC./LEAKAGE THROUGH LAYER 2	0.365655	1327.329	1.01
AVG. HEAD ON TOP OF LAYER 2	1.5720		
PERC./LEAKAGE THROUGH LAYER 5	0.225637	819.062	0.62
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	-0.089	-321.496	-0.25
SOIL WATER AT START OF YEAR	133.258	483725.969	
SOIL WATER AT END OF YEAR	133.337	484011.656	

SNOW WATER AT START OF YEAR	0.282	1022.196	0.78
SNOW WATER AT END OF YEAR	0.114	415.001	0.32
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.18	116813.398	100.00
RUNOFF	11.804	42848.727	36.68
EVAPOTRANSPIRATION	18.481	67084.664	57.43
PERC./LEAKAGE THROUGH LAYER 2	0.283806	1030.217	0.88
AVG. HEAD ON TOP OF LAYER 2	1.2118		
PERC./LEAKAGE THROUGH LAYER 5	0.199596	724.534	0.62
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	1.696	6155.499	5.27
SOIL WATER AT START OF YEAR	133.337	484011.656	
SOIL WATER AT END OF YEAR	133.476	484519.437	
SNOW WATER AT START OF YEAR	0.114	415.001	0.36
SNOW WATER AT END OF YEAR	1.670	6062.746	5.19
ANNUAL WATER BUDGET BALANCE	0.0000	-0.021	0.00

ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.97	119681.117	100.00
RUNOFF	14.121	51260.000	42.83
EVAPOTRANSPIRATION	18.733	68000.062	56.82
PERC./LEAKAGE THROUGH LAYER 2	0.288988	1049.026	0.88
AVG. HEAD ON TOP OF LAYER 2	0.8345		

PERC./LEAKAGE THROUGH LAYER 5	0.266616	967.817	0.81
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.151	-546.783	-0.46
SOIL WATER AT START OF YEAR	133.476	484519.437	
SOIL WATER AT END OF YEAR	133.381	484171.344	
SNOW WATER AT START OF YEAR	1.670	6062.746	5.07
SNOW WATER AT END OF YEAR	1.615	5864.029	4.90
ANNUAL WATER BUDGET BALANCE	0.0000	0.023	0.00

ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.64	107593.227	100.00
RUNOFF	12.474	45279.707	42.08
EVAPOTRANSPIRATION	18.988	68926.672	64.06
PERC./LEAKAGE THROUGH LAYER 2	0.288381	1046.824	0.97
AVG. HEAD ON TOP OF LAYER 2	1.0827		
PERC./LEAKAGE THROUGH LAYER 5	0.254088	922.338	0.86
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	-2.076	-7535.460	-7.00
SOIL WATER AT START OF YEAR	133.381	484171.344	
SOIL WATER AT END OF YEAR	132.920	482499.937	
SNOW WATER AT START OF YEAR	1.615	5864.029	5.45
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.030	0.00

ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT
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PRECIPITATION	29.09	105596.703	100.00
RUNOFF	9.231	33506.898	31.73
EVAPOTRANSPIRATION	19.107	69358.680	65.68
PERC./LEAKAGE THROUGH LAYER 2	0.258338	937.768	0.89
AVG. HEAD ON TOP OF LAYER 2	1.2045		
PERC./LEAKAGE THROUGH LAYER 5	0.212540	771.522	0.73
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.540	1959.566	1.86
SOIL WATER AT START OF YEAR	132.920	482499.937	
SOIL WATER AT END OF YEAR	133.460	484459.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.032	0.00

ANNUAL TOTALS FOR YEAR 14

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.14	134818.203	100.00
RUNOFF	15.093	54786.727	40.64
EVAPOTRANSPIRATION	21.462	77906.867	57.79
PERC./LEAKAGE THROUGH LAYER 2	0.341478	1239.563	0.92
AVG. HEAD ON TOP OF LAYER 2	1.6040		
PERC./LEAKAGE THROUGH LAYER 5	0.211755	768.671	0.57
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.374	1355.999	1.01
SOIL WATER AT START OF YEAR	133.460	484459.500	
SOIL WATER AT END OF YEAR	133.719	485399.781	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.115	415.708	0.31
ANNUAL WATER BUDGET BALANCE	0.0000	-0.064	0.00

ANNUAL TOTALS FOR YEAR 15

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.24	153331.219	100.00
RUNOFF	16.790	60946.422	39.75
EVAPOTRANSPIRATION	25.569	92814.078	60.53
PERC./LEAKAGE THROUGH LAYER 2	0.382903	1389.937	0.91
AVG. HEAD ON TOP OF LAYER 2	1.6817		
PERC./LEAKAGE THROUGH LAYER 5	0.308396	1119.476	0.73
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.427	-1548.754	-1.01
SOIL WATER AT START OF YEAR	133.719	485399.781	
SOIL WATER AT END OF YEAR	133.407	484266.750	
SNOW WATER AT START OF YEAR	0.115	415.708	0.27
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.003	0.00

ANNUAL TOTALS FOR YEAR 16

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.88	133874.406	100.00
RUNOFF	14.907	54110.871	40.42
EVAPOTRANSPIRATION	21.012	76272.680	56.97
PERC./LEAKAGE THROUGH LAYER 2	0.314169	1140.435	0.85
AVG. HEAD ON TOP OF LAYER 2	1.5688		
PERC./LEAKAGE THROUGH LAYER 5	0.304016	1103.577	0.82
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.658	2387.219	1.78
SOIL WATER AT START OF YEAR	133.407	484266.750	

SOIL WATER AT END OF YEAR	133.804	485707.094	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.261	946.873	0.71
ANNUAL WATER BUDGET BALANCE	0.0000	0.058	0.00

ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.63	162006.937	100.00
RUNOFF	20.817	75565.336	46.64
EVAPOTRANSPIRATION	23.567	85547.258	52.80
PERC./LEAKAGE THROUGH LAYER 2	0.341464	1239.516	0.77
AVG. HEAD ON TOP OF LAYER 2	1.7987		
PERC./LEAKAGE THROUGH LAYER 5	0.241346	876.084	0.54
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.005	18.281	0.01
SOIL WATER AT START OF YEAR	133.804	485707.094	
SOIL WATER AT END OF YEAR	133.904	486070.562	
SNOW WATER AT START OF YEAR	0.261	946.873	0.58
SNOW WATER AT END OF YEAR	0.166	601.689	0.37
ANNUAL WATER BUDGET BALANCE	0.0000	-0.028	0.00

ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.64	114853.227	100.00
RUNOFF	10.992	39899.570	34.74
EVAPOTRANSPIRATION	20.577	74693.031	65.03
PERC./LEAKAGE THROUGH LAYER 2	0.361915	1313.750	1.14

AVG. HEAD ON TOP OF LAYER 2	1.5646		
PERC./LEAKAGE THROUGH LAYER 5	0.257760	935.670	0.81
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.186	-675.080	-0.59
SOIL WATER AT START OF YEAR	133.904	486070.562	
SOIL WATER AT END OF YEAR	133.884	485997.156	
SNOW WATER AT START OF YEAR	0.166	601.689	0.52
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.031	0.00

ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.16	153040.750	100.00
RUNOFF	20.504	74429.242	48.63
EVAPOTRANSPIRATION	20.622	74856.328	48.91
PERC./LEAKAGE THROUGH LAYER 2	0.381249	1383.933	0.90
AVG. HEAD ON TOP OF LAYER 2	1.9602		
PERC./LEAKAGE THROUGH LAYER 5	0.264950	961.770	0.63
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.770	2793.481	1.83
SOIL WATER AT START OF YEAR	133.884	485997.156	
SOIL WATER AT END OF YEAR	133.984	486361.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.669	2429.129	1.59
ANNUAL WATER BUDGET BALANCE	0.0000	-0.078	0.00

ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.07	145454.109	100.00
RUNOFF	18.739	68022.766	46.77
EVAPOTRANSPIRATION	21.496	78028.922	53.65
PERC./LEAKAGE THROUGH LAYER 2	0.364261	1322.267	0.91
AVG. HEAD ON TOP OF LAYER 2	1.4153		
PERC./LEAKAGE THROUGH LAYER 5	0.256745	931.985	0.64
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	-0.421	-1529.550	-1.05
SOIL WATER AT START OF YEAR	133.984	486361.500	
SOIL WATER AT END OF YEAR	134.232	487261.094	
SNOW WATER AT START OF YEAR	0.669	2429.129	1.67
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.011	0.00

ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.49	136088.719	100.00
RUNOFF	15.646	56795.723	41.73
EVAPOTRANSPIRATION	21.442	77835.922	57.19
PERC./LEAKAGE THROUGH LAYER 2	0.402894	1462.505	1.07
AVG. HEAD ON TOP OF LAYER 2	1.9719		
PERC./LEAKAGE THROUGH LAYER 5	0.231235	839.384	0.62
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.170	617.647	0.45
SOIL WATER AT START OF YEAR	134.232	487261.094	
SOIL WATER AT END OF YEAR	134.402	487878.750	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00

ANNUAL WATER BUDGET BALANCE 0.0000 0.046 0.00

ANNUAL TOTALS FOR YEAR 22

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.68	122258.430	100.00
RUNOFF	9.650	35030.859	28.65
EVAPOTRANSPIRATION	22.710	82436.805	67.43
PERC./LEAKAGE THROUGH LAYER 2	0.352407	1279.239	1.05
AVG. HEAD ON TOP OF LAYER 2	1.4407		
PERC./LEAKAGE THROUGH LAYER 5	0.254612	924.243	0.76
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	1.065	3866.473	3.16
SOIL WATER AT START OF YEAR	134.402	487878.750	
SOIL WATER AT END OF YEAR	134.421	487949.250	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.046	3795.963	3.10
ANNUAL WATER BUDGET BALANCE	0.0000	0.048	0.00

ANNUAL TOTALS FOR YEAR 23

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.51	107121.344	100.00
RUNOFF	8.865	32178.689	30.04
EVAPOTRANSPIRATION	21.401	77686.852	72.52
PERC./LEAKAGE THROUGH LAYER 2	0.313883	1139.394	1.06
Avg. Head on Top of Layer 2	1.0420		
PERC./LEAKAGE THROUGH LAYER 5	0.229194	831.976	0.78
Avg. Head on Top of Layer 5	0.0002		

CHANGE IN WATER STORAGE	-0.985	-3576.177	-3.34
SOIL WATER AT START OF YEAR	134.421	487949.250	
SOIL WATER AT END OF YEAR	134.482	488169.031	
SNOW WATER AT START OF YEAR	1.046	3795.963	3.54
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.003	0.00

ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.80	119064.008	100.00
RUNOFF	14.731	53474.500	44.91
EVAPOTRANSPIRATION	17.617	63950.164	53.71
PERC./LEAKAGE THROUGH LAYER 2	0.347968	1263.123	1.06
AVG. HEAD ON TOP OF LAYER 2	1.6953		
PERC./LEAKAGE THROUGH LAYER 5	0.252191	915.454	0.77
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.199	723.884	0.61
SOIL WATER AT START OF YEAR	134.482	488169.031	
SOIL WATER AT END OF YEAR	134.681	488892.906	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.012	0.00

ANNUAL TOTALS FOR YEAR 25

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.50	125234.969	100.00
RUNOFF	16.536	60025.977	47.93

EVAPOTRANSPIRATION	17.664	64118.664	51.20
PERC./LEAKAGE THROUGH LAYER 2	0.334259	1213.359	0.97
AVG. HEAD ON TOP OF LAYER 2	1.3719		
PERC./LEAKAGE THROUGH LAYER 5	0.202172	733.885	0.59
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.098	356.519	0.28
SOIL WATER AT START OF YEAR	134.681	488892.906	
SOIL WATER AT END OF YEAR	134.695	488943.437	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.084	306.004	0.24
ANNUAL WATER BUDGET BALANCE	0.0000	-0.071	0.00

ANNUAL TOTALS FOR YEAR 26

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.34	121024.187	100.00
RUNOFF	6.154	22340.033	18.46
EVAPOTRANSPIRATION	26.879	97571.375	80.62
PERC./LEAKAGE THROUGH LAYER 2	0.368896	1339.092	1.11
Avg. HEAD ON TOP OF LAYER 2	1.6187		
PERC./LEAKAGE THROUGH LAYER 5	0.266837	968.617	0.80
Avg. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.040	144.146	0.12
SOIL WATER AT START OF YEAR	134.695	488943.437	
SOIL WATER AT END OF YEAR	134.819	489393.594	
SNOW WATER AT START OF YEAR	0.084	306.004	0.25
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.012	0.00

ANNUAL TOTALS FOR YEAR 27

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.51	118011.336	100.00
RUNOFF	10.368	37635.922	31.89
EVAPOTRANSPIRATION	22.096	80208.484	67.97
PERC./LEAKAGE THROUGH LAYER 2	0.290240	1053.572	0.89
AVG. HEAD ON TOP OF LAYER 2	1.3716		
PERC./LEAKAGE THROUGH LAYER 5	0.268495	974.638	0.83
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.223	-807.688	-0.68
SOIL WATER AT START OF YEAR	134.819	489393.594	
SOIL WATER AT END OF YEAR	134.597	488585.906	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.020	0.00

ANNUAL TOTALS FOR YEAR 28

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.06	116377.805	100.00
RUNOFF	13.656	49570.605	42.59
EVAPOTRANSPIRATION	16.628	60360.875	51.87
PERC./LEAKAGE THROUGH LAYER 2	0.264465	960.008	0.82
AVG. HEAD ON TOP OF LAYER 2	1.2613		
PERC./LEAKAGE THROUGH LAYER 5	0.313137	1136.688	0.98
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	1.463	5309.610	4.56
SOIL WATER AT START OF YEAR	134.597	488585.906	
SOIL WATER AT END OF YEAR	134.882	489622.406	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00

SNOW WATER AT END OF YEAR	1.177	4273.108	3.67
ANNUAL WATER BUDGET BALANCE	0.0000	0.028	0.00

ANNUAL TOTALS FOR YEAR 29

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.05	112711.531	100.00
RUNOFF	12.297	44637.793	39.60
EVAPOTRANSPIRATION	19.654	71342.602	63.30
PERC./LEAKAGE THROUGH LAYER 2	0.346448	1257.606	1.12
AVG. HEAD ON TOP OF LAYER 2	1.2164		
PERC./LEAKAGE THROUGH LAYER 5	0.224392	814.541	0.72
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	-1.125	-4083.399	-3.62
SOIL WATER AT START OF YEAR	134.882	489622.406	
SOIL WATER AT END OF YEAR	134.934	489812.094	
SNOW WATER AT START OF YEAR	1.177	4273.108	3.79
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.001	0.00

ANNUAL TOTALS FOR YEAR 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.86	166471.781	100.00
RUNOFF	22.598	82031.687	49.28
EVAPOTRANSPIRATION	23.071	83747.328	50.31
PERC./LEAKAGE THROUGH LAYER 2	0.383597	1392.456	0.84
AVG. HEAD ON TOP OF LAYER 2	1.8243		
PERC./LEAKAGE THROUGH LAYER 5	0.299459	1087.035	0.65

AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.109	-394.206	-0.24
SOIL WATER AT START OF YEAR	134.934	489812.094	
SOIL WATER AT END OF YEAR	134.826	489417.906	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.052	0.00

ANNUAL TOTALS FOR YEAR 31

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.31	128175.320	100.00
RUNOFF	12.605	45754.715	35.70
EVAPOTRANSPIRATION	22.227	80684.133	62.95
PERC./LEAKAGE THROUGH LAYER 2	0.371317	1347.882	1.05
AVG. HEAD ON TOP OF LAYER 2	1.2856		
PERC./LEAKAGE THROUGH LAYER 5	0.332014	1205.210	0.94
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.146	531.232	0.41
SOIL WATER AT START OF YEAR	134.826	489417.906	
SOIL WATER AT END OF YEAR	134.873	489588.656	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.099	360.466	0.28
ANNUAL WATER BUDGET BALANCE	0.0000	0.030	0.00

ANNUAL TOTALS FOR YEAR 32

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.62	151080.656	100.00

RUNOFF	16.949	61524.770	40.72
EVAPOTRANSPIRATION	24.126	87578.734	57.97
PERC./LEAKAGE THROUGH LAYER 2	0.382523	1388.559	0.92
AVG. HEAD ON TOP OF LAYER 2	1.9062		
PERC./LEAKAGE THROUGH LAYER 5	0.317148	1151.246	0.76
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.227	825.809	0.55
SOIL WATER AT START OF YEAR	134.873	489588.656	
SOIL WATER AT END OF YEAR	135.200	490774.937	
SNOW WATER AT START OF YEAR	0.099	360.466	0.24
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.091	0.00

ANNUAL TOTALS FOR YEAR 33

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.30	153548.953	100.00
RUNOFF	16.584	60199.816	39.21
EVAPOTRANSPIRATION	24.982	90684.500	59.06
PERC./LEAKAGE THROUGH LAYER 2	0.399036	1448.500	0.94
AVG. HEAD ON TOP OF LAYER 2	1.9584		
PERC./LEAKAGE THROUGH LAYER 5	0.314378	1141.191	0.74
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.420	1523.488	0.99
SOIL WATER AT START OF YEAR	135.200	490774.937	
SOIL WATER AT END OF YEAR	135.274	491045.687	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.345	1252.744	0.82
ANNUAL WATER BUDGET BALANCE	0.0000	-0.040	0.00

ANNUAL TOTALS FOR YEAR 34

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.68	133148.422	100.00
RUNOFF	11.361	41240.195	30.97
EVAPOTRANSPIRATION	25.290	91802.180	68.95
PERC./LEAKAGE THROUGH LAYER 2	0.365727	1327.590	1.00
AVG. HEAD ON TOP OF LAYER 2	1.5153		
PERC./LEAKAGE THROUGH LAYER 5	0.261734	950.093	0.71
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.233	-844.137	-0.63
SOIL WATER AT START OF YEAR	135.274	491045.687	
SOIL WATER AT END OF YEAR	135.387	491454.281	
SNOW WATER AT START OF YEAR	0.345	1252.744	0.94
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.100	0.00

ANNUAL TOTALS FOR YEAR 35

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.40	150282.078	100.00
RUNOFF	17.304	62814.570	41.80
EVAPOTRANSPIRATION	23.709	86062.195	57.27
PERC./LEAKAGE THROUGH LAYER 2	0.392189	1423.645	0.95
AVG. HEAD ON TOP OF LAYER 2	1.8999		
PERC./LEAKAGE THROUGH LAYER 5	0.277469	1007.213	0.67
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.110	398.028	0.26
SOIL WATER AT START OF YEAR	135.387	491454.281	

SOIL WATER AT END OF YEAR	135.497	491852.312	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.071	0.00

ANNUAL TOTALS FOR YEAR 36

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.43	154020.891	100.00
RUNOFF	20.415	74108.008	48.12
EVAPOTRANSPIRATION	21.639	78548.437	51.00
PERC./LEAKAGE THROUGH LAYER 2	0.407615	1479.643	0.96
AVG. HEAD ON TOP OF LAYER 2	1.7991		
PERC./LEAKAGE THROUGH LAYER 5	0.258245	937.430	0.61
AVG. HEAD ON TOP OF LAYER 5	0.0602		
CHANGE IN WATER STORAGE	0.118	427.052	0.28
SOIL WATER AT START OF YEAR	135.497	491852.312	
SOIL WATER AT END OF YEAR	135.614	492279.375	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.040	0.00

ANNUAL TOTALS FOR YEAR 37

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.55	161716.484	100.00
RUNOFF	22.296	80933.937	50.05
EVAPOTRANSPIRATION	21.669	78659.680	48.64
PERC./LEAKAGE THROUGH LAYER 2	0.344915	1252.042	0.77

AVG. HEAD ON TOP OF LAYER 2	1.6362		
PERC./LEAKAGE THROUGH LAYER 5	0.261535	949.373	0.59
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.323	1173.548	0.73
SOIL WATER AT START OF YEAR	135.614	492279.375	
SOIL WATER AT END OF YEAR	135.726	492686.594	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.211	766.325	0.47
ANNUAL WATER BUDGET BALANCE	0.0000	-0.052	0.00

ANNUAL TOTALS FOR YEAR 38

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.17	131297.094	100.00
RUNOFF	15.427	55999.582	42.65
EVAPOTRANSPIRATION	20.578	74697.773	56.89
PERC./LEAKAGE THROUGH LAYER 2	0.298251	1082.652	0.82
AVG. HEAD ON TOP OF LAYER 2	1.2187		
PERC./LEAKAGE THROUGH LAYER 5	0.288961	1048.930	0.80
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.124	-449.199	-0.34
SOIL WATER AT START OF YEAR	135.726	492686.594	
SOIL WATER AT END OF YEAR	135.727	492689.812	
SNOW WATER AT START OF YEAR	0.211	766.325	0.58
SNOW WATER AT END OF YEAR	0.086	313.914	0.24
ANNUAL WATER BUDGET BALANCE	0.0000	0.005	0.00

ANNUAL TOTALS FOR YEAR 39

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.28	106286.406	100.00
RUNOFF	9.896	35921.926	33.80
EVAPOTRANSPIRATION	19.115	69388.461	65.28
PERC./LEAKAGE THROUGH LAYER 2	0.337621	1225.564	1.15
AVG. HEAD ON TOP OF LAYER 2	1.3112		
PERC./LEAKAGE THROUGH LAYER 5	0.239860	870.690	0.82
AVG. HEAD ON TOP OF LAYER 5	0.0002		
CHANGE IN WATER STORAGE	0.029	105.340	0.10
SOIL WATER AT START OF YEAR	135.727	492689.812	
SOIL WATER AT END OF YEAR	135.841	493104.219	
SNOW WATER AT START OF YEAR	0.086	313.914	0.30
SNOW WATER AT END OF YEAR	0.001	4.831	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.014	0.00

ANNUAL TOTALS FOR YEAR 40

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.71	133257.281	100.00
RUNOFF	16.557	60102.121	45.10
EVAPOTRANSPIRATION	19.674	71417.406	53.59
PERC./LEAKAGE THROUGH LAYER 2	0.355472	1290.364	0.97
AVG. HEAD ON TOP OF LAYER 2	1.9685		
PERC./LEAKAGE THROUGH LAYER 5	0.268793	975.718	0.73
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.210	762.060	0.57
SOIL WATER AT START OF YEAR	135.841	493104.219	
SOIL WATER AT END OF YEAR	135.698	492583.344	
SNOW WATER AT START OF YEAR	0.001	4.831	0.00
SNOW WATER AT END OF YEAR	0.355	1287.772	0.97
ANNUAL WATER BUDGET BALANCE	0.0000	-0.025	0.00

ANNUAL TOTALS FOR YEAR 41

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.47	143276.078	100.00
RUNOFF	13.896	50443.074	35.21
EVAPOTRANSPIRATION	24.767	89903.531	62.75
PERC./LEAKAGE THROUGH LAYER 2	0.337122	1223.753	0.85
AVG. HEAD ON TOP OF LAYER 2	1.9054		
PERC./LEAKAGE THROUGH LAYER 5	0.325655	1182.126	0.83
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.481	1747.363	1.22
SOIL WATER AT START OF YEAR	135.698	492583.344	
SOIL WATER AT END OF YEAR	135.919	493385.875	
SNOW WATER AT START OF YEAR	0.355	1287.772	0.90
SNOW WATER AT END OF YEAR	0.615	2232.598	1.56
ANNUAL WATER BUDGET BALANCE	0.0000	-0.019	0.00

ANNUAL TOTALS FOR YEAR 42

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.46	135979.781	100.00
RUNOFF	19.118	69398.812	51.04
EVAPOTRANSPIRATION	18.536	67285.539	49.48
PERC./LEAKAGE THROUGH LAYER 2	0.355378	1290.021	0.95
AVG. HEAD ON TOP OF LAYER 2	1.5203		
PERC./LEAKAGE THROUGH LAYER 5	0.307001	1114.413	0.82
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.501	-1819.039	-1.34

SOIL WATER AT START OF YEAR	135.919	493385.875	
SOIL WATER AT END OF YEAR	135.980	493606.437	
SNOW WATER AT START OF YEAR	0.615	2232.598	1.64
SNOW WATER AT END OF YEAR	0.053	192.998	0.14
ANNUAL WATER BUDGET BALANCE	0.0000	0.059	0.00

ANNUAL TOTALS FOR YEAR 43

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.39	153875.703	100.00
RUNOFF	17.197	62423.887	40.57
EVAPOTRANSPIRATION	24.781	89953.852	58.46
PERC./LEAKAGE THROUGH LAYER 2	0.365909	1400.850	0.91
AVG. HEAD ON TOP OF LAYER 2	1.8502		
PERC./LEAKAGE THROUGH LAYER 5	0.333220	1209.589	0.79
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.079	288.411	0.19
SOIL WATER AT START OF YEAR	135.980	493606.437	
SOIL WATER AT END OF YEAR	136.042	493832.812	
SNOW WATER AT START OF YEAR	0.053	192.998	0.13
SNOW WATER AT END OF YEAR	0.070	255.032	0.17
ANNUAL WATER BUDGET BALANCE	0.0000	-0.042	0.00

ANNUAL TOTALS FOR YEAR 44

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.10	145562.984	100.00
RUNOFF	17.951	65161.480	44.77
EVAPOTRANSPIRATION	20.807	75529.719	51.89

PERC./LEAKAGE THROUGH LAYER 2	0.322275	1169.858	0.80
AVG. HEAD ON TOP OF LAYER 2	1.3563		
PERC./LEAKAGE THROUGH LAYER 5	0.332496	1206.961	0.83
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	1.010	3664.774	2.52
SOIL WATER AT START OF YEAR	136.042	493832.812	
SOIL WATER AT END OF YEAR	135.874	493222.031	
SNOW WATER AT START OF YEAR	0.070	255.032	0.18
SNOW WATER AT END OF YEAR	1.248	4530.585	3.11
ANNUAL WATER BUDGET BALANCE	0.0000	0.047	0.00

ANNUAL TOTALS FOR YEAR 45			
	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.62	165600.500	100.00
RUNOFF	20.667	75019.812	45.30
EVAPOTRANSPIRATION	25.608	92958.094	56.13
PERC./LEAKAGE THROUGH LAYER 2	0.368840	1338.888	0.81
Avg. HEAD ON TOP OF LAYER 2	1.5959		
PERC./LEAKAGE THROUGH LAYER 5	0.332451	1206.797	0.73
Avg. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	-0.987	-3584.073	-2.16
SOIL WATER AT START OF YEAR	135.874	493222.031	
SOIL WATER AT END OF YEAR	135.847	493124.781	
SNOW WATER AT START OF YEAR	1.248	4530.585	2.74
SNOW WATER AT END OF YEAR	0.288	1043.775	0.63
ANNUAL WATER BUDGET BALANCE	0.0000	-0.127	0.00

ANNUAL TOTALS FOR YEAR 46

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.88	155654.406	100.00
RUNOFF	19.101	69337.305	44.55
EVAPOTRANSPIRATION	23.143	84008.609	53.97
PERC./LEAKAGE THROUGH LAYER 2	0.352162	1278.348	0.82
AVG. HEAD ON TOP OF LAYER 2	1.7273		
PERC./LEAKAGE THROUGH LAYER 5	0.291037	1056.466	0.68
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.345	1252.047	0.80
SOIL WATER AT START OF YEAR	135.847	493124.781	
SOIL WATER AT END OF YEAR	136.129	494149.656	
SNOW WATER AT START OF YEAR	0.288	1043.775	0.67
SNOW WATER AT END OF YEAR	0.350	1270.952	0.82
ANNUAL WATER BUDGET BALANCE	0.0000	-0.028	0.00

ANNUAL TOTALS FOR YEAR 47

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.87	141098.125	100.00
RUNOFF	16.417	59592.375	42.23
EVAPOTRANSPIRATION	21.507	78069.281	55.33
PERC./LEAKAGE THROUGH LAYER 2	0.373494	1355.783	0.96
AVG. HEAD ON TOP OF LAYER 2	1.8584		
PERC./LEAKAGE THROUGH LAYER 5	0.346086	1256.294	0.89
AVG. HEAD ON TOP OF LAYER 5	0.0003		
CHANGE IN WATER STORAGE	0.601	2180.167	1.55
SOIL WATER AT START OF YEAR	136.129	494149.656	
SOIL WATER AT END OF YEAR	136.154	494237.937	
SNOW WATER AT START OF YEAR	0.350	1270.952	0.90